



This quick start guide is intended to provide a quick overview of your ASSIST's key features and to offer basic instructions for getting started. For detailed information, please refer to the latest operating instructions (OI) that can be found at www.integra-biosciences.com in different languages.

Intended Use

This is a general-purpose laboratory instrument. Any use of this instrument in a medical or IVD setting is the sole responsibility of the user. ASSIST is used to perform pipetting operations automatically with a VIAFLO electronic multichannel pipette attached.

Safety information

Regardless of the listed safety notes, all locally applicable regulations must be observed.

- 1) This product may only be operated in a secure, protected network with trustworthy clients.
- 2) The pipette may only be used by properly trained personnel in a manner specified by INTEGRA Biosciences.
- 3) Observe the hazard warnings on the device. Keep hands away from moving pipette arm and plate carrier.
- 4) Do not use or charge the instrument near flammable material or in an atmosphere with danger of explosion. Also, do not pipette highly flammable liquids such as acetone or ether.
- 5) Servicing work and repairs may only be performed by INTEGRA Biosciences or an authorized after-sales service member.

Getting started



Set up the instrument on a perfectly horizontal surface according to the IQ/OQ document (PN 127953). Supply voltage: 100–240 VAC, 50–60 Hz.

Insert the adapter cable in the socket and connect the adapter via a 3-core cable to the electricity mains.



- a. Tower with Pipette arm, moves in Z-direction
- b. Plate carrier, moves in X-direction
- c. Power connection
- d. USB port
- e. Keypad
- f. Reservoir position
- g. Instrument base
- h. Pipette holder with lever to shift the pipette in Y-direction
- i. Gripper, with lever to release the pipette

Switch on/off:

Press the On/Off key.



- j. Arrow keys to move the pipette up and down (Z-axis) and right and left (X-axis)
- k. Start/Pause key
- l. Bluetooth control LED and Error LED
- m. On/Off key (lights green if On)

Switch on the device. Press the blinking Start/Pause key (k) to home the ASSIST.



Remove hands from ASSIST during homing and operation.

Adapting the pipette holder

Adapt the pipette holder to the used VIAFLO pipette:



- VIAFLO 8- or 16-channel: fold the lever down
- VIAFLO 12-channel: lift the lever up

Attaching an electronic pipette

For communication with ASSIST, the Pipette Communication Module must be installed to the pipette. Rotate the lower housing of the pipette by 90 degrees as displayed in the picture below.

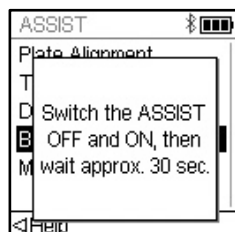


- To install a pipette, hold the pipette at an angle and insert it into the pipette holder. Then lift up until the black gripper snaps in place.
- To release the pipette lift the black gripper by pushing down the lever.

Note: GRIPTIPS must be attached before you can start a run.

Enabling ASSIST program and pairing

To display the ASSIST program in the main menu of the pipette, navigate to the Toolbox. Select Preferences - Main Menu and check ASSIST (green ✓).



The first time a specific pipette is connected to ASSIST, both instruments need to be paired.

- Scroll to the Toolbox and press OK.
- From the ASSIST option select ComModule Pairing.
- Switch OFF and ON the ASSIST device and wait until the message "Pairing successful" is displayed.

Bluetooth connection between ASSIST and pipette

Enter the ASSIST mode in the Main Menu. The pipette establishes the connection with the ASSIST. The communication symbol  is displayed next to the battery indicator and on the keypad of the ASSIST the Communication LED (I) lights up in blue.

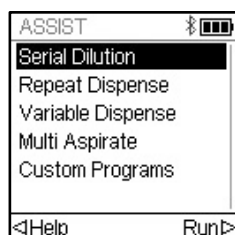
Initial Toolbox settings

From the Toolbox for ASSIST, adapt the device to the appropriate applications:

- **Plate alignment:** set the numbers of wells of your plate. With GRIPTIPS attached, align the tips along the X-axis with the center of the wells of the first row/column of a plate using the arrow keys (j). For fine adjustment along the Y-axis a screw driver is required, see OI.
- **Tip types:** set the used tip type standard, short or long.
- **Move speed:** set the speed of pipette arm and plate carrier.

Running a program

Place the required labware (reservoir, plates, etc.) on the deck. From the ASSIST menu select the program category and the program you would like to run.

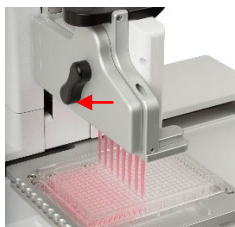


- Press the RUN button of the pipette.
- Press the blinking Start/Pause key (k) on the ASSIST device. It switches to solid green, the ASSIST homes and the program is performed automatically.

A program can be interrupted by pressing the Start/Pause key (k). Either press the Start/Pause key again to continue the program or press Abort on the pipette to abort the program.

Using the lever

To access a plate that has 2x more wells in a column than the pipette channels, the pipette must be shifted in Y-direction.



- **Lever to the rear:** pipette into the rear wells.
- **Lever in the middle:** pipette into plates that have as many wells in a column as the pipette has channels.
- **Lever to the front:** pipette into the front wells.

Setting up pipetting programs

You can select a predefined program on the pipette and adapt the parameters to your needs, see OI.

Program category	Description
Serial Dilution	Aspirate a transfer volume followed by a mix.
Repeat Dispense	Dispense multiple aliquots of the same volume.
Variable Dispense	Dispense multiple aliquots of different volumes.
Multi Aspirate	Aspirate multiple aliquots of different volumes.
Custom Programs	Create multi-stepped user-defined pipetting programs.

Maintenance



Always switch off the device and disconnected form the electricity supply when carrying out maintenance work.

- Clean the ASSIST housing with a lint-free cloth lightly soaked with mild soap solution in distilled water or with a 70 % solution of isopropanol or ethanol.
- To decontaminate the ASSIST, wipe the clean instrument surface with a lint-free cloth lightly soaked with a suitable disinfectant and wipe dry directly.

Equipment Disposal



ASSIST must not be disposed of with unsorted municipal waste. Dispose of ASSIST in accordance with the regulations in your area governing disposal of devices.

Manufacturer and customer service

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Declaration of conformity

INTEGRA Biosciences AG – 7205 Zizers, Switzerland

declares on its own responsibility that the device

Description	Model
ASSIST	4500

complies with:

EU Provisions

2014/35/EU, 2014/30/EU, 2014/53/EU, 2012/19/EU, 2011/65/EU, 1907/2006, 2019/1782

UK Provisions

S.I. 2016/1101, S.I. 2016/1091, S.I. 2017/1206, S.I. 2013/3113, S.I. 2012/3032

Zizers, July 27, 2026

Urs Hartmann
CEO

Daniela Gross
Head of Corporate Quality

For detailed declaration of conformity with provisions of other countries, please refer to the D-ONE operating instructions.