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Quick Start Guide — MINI 96 – 96 Channel Pipette

This quick start guide is intended to provide a quick overview of your MINI 96's key features and to offer basic instructions for getting started. For detailed information, please refer to the latest operating instructions that can be found at www.integra-biosciences.com in different languages.

Use this QR code or visit www.integra-biosciences.com/en/mini-96-getting-started to access the getting started video.

Intended use

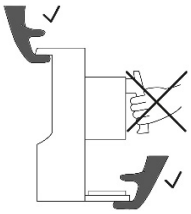
This is a general-purpose laboratory instrument. Any use of this instrument in a medical or IVD setting is the sole responsibility of the user. MINI 96 are electronic hand held pipettes that can be used for aspirating and dispensing aqueous solutions in the volume range of 0.5 µl to 1250 µl using GripTip™ pipette tips only, see www.integra-biosciences.com.

⚠ Safety information

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

1) The pipette may only be used by properly trained personnel in a manner specified by INTEGRA Biosciences.
2) Do not use the instrument near flammable material or in an atmosphere with danger of explosion.
3) Do not immerse the pipetting unit in liquid. Avoid pipetting of liquids emitting corrosive vapors.
4) Servicing work and repairs may only be performed by INTEGRA Biosciences or an authorized after-sales service member.

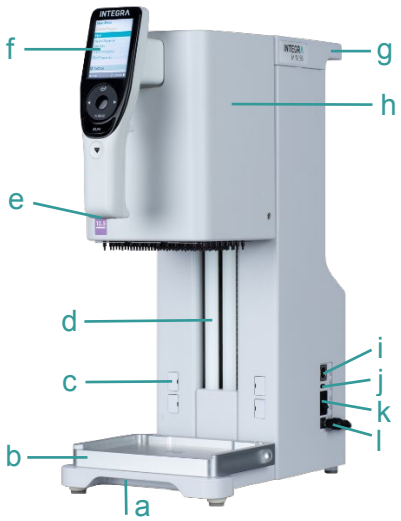
Getting started



Hold the MINI 96 by the carrying grip and handle (a, g) and set it up on a perfectly horizontal surface.

For shipping the instrument, clear the deck, select park head and press OK. The pipetting unit automatically moves to park position.

Insert the adapter cable in the socket (l) and connect the mains adapter to the electricity mains. Supply voltage: 100 – 240 VAC, 50 – 60 Hz.



a. **Carrying grip**
b. **Base stage** on **Deck**
c. **Magnetic covers**, for **Second stage**
d. **LED bars**
e. **Deck light**
f. **Control unit**
g. **Carrying handle**
h. **Pipetting unit**, to move up and down
i. **AUX port**
j. **USB-C port**
k. **Main switch** (ON I OFF)
l. **DC Input** for mains adapter

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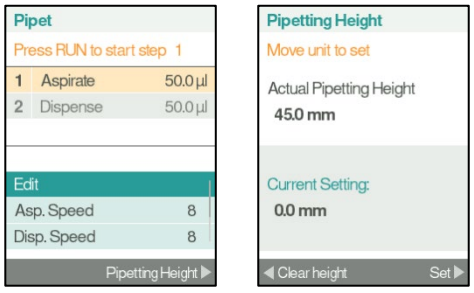
MINI 96 control unit

m. **Display**
n. **Touch wheel**, spin to scroll the cursor
o. **OK button**, to make a selection
p. **RUN key**, to start operations
q. **Tip ejector**
r. **Purge button**, to empty tips
s. **Arrow buttons**, for selections
t. **Back button**, to navigate backward

Loading GripTips

- Insert the **Base stage** (b) on the **Deck**. The graphic “96” or “384” must match the tip rack pattern. Put a tip rack on the **Base stage**.
- You can load 96 tips four times from racks of 384 tips (12.5 µl and 125 µl only). Insert the **Base stage** with side “384” pointing upwards. Move the tip rack in one of the four corners, e. g. front left.
- Hold the **Control unit** (f) and lower the **Pipetting unit** (h) down onto the tip rack until you are prompted to press **OK** to start automated tip loading.
- Partial tip loading requires the optional Two Position Stage. Press Partial ► and Set No. of Columns ►. Enter the number of columns filled with tips and press **OK**. The device adapts the tip loading strength to the number of tips.

Setting Pipetting Height

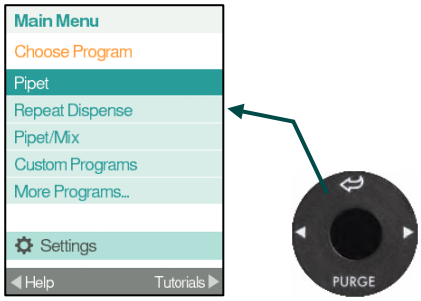


- To define the lowest possible pipetting height, for ex. the bottom of a well plate, select Pipetting Height ►.
- With tips attached move the Pipetting unit down to the desired pipetting height.
- Press Set ► to save your setting.

Running a pipetting program

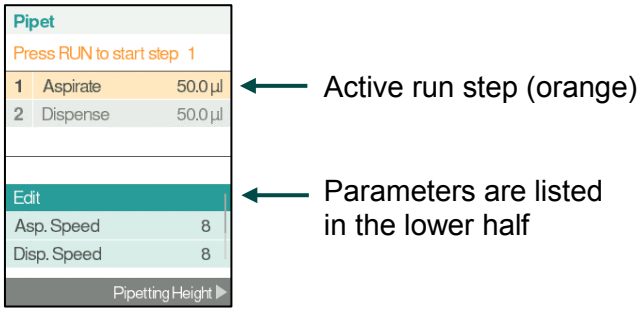
Select from predefined programs that you can adapt easily, or create multi-stepped custom programs.

Program	Description
Pipet	Liquid transfers when aspirate and dispense volumes are equal.
Repeat Dispense	Dispense multiple aliquots of the same volume.
Sample Dilute	Aspirate two liquids divided by an air gap, followed by dispense.
Pipet/Mix	Multiple mixing by aspiration and dispensing of defined volume.
Manual Pipet	Control the aspiration and dispensing up to the set volume.
Reverse Pipet	Liquid transfers of viscous or high vapor pressure liquids.
Variable Dispense	Dispense multiple aliquots of different volumes.
Multi Aspirate	Aspirate multiple aliquots of different volumes.
Sample Dilute/Mix	Aspirate two liquids divided by an air gap, followed by dispense and mix.
Serial Dilution	Aspirates a transfer volume followed by a mix.
Custom	Creates and store multi-stepped pipetting protocols.



From the Main Menu, use the **Touch Wheel** to scroll to your desired program.

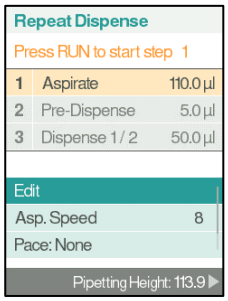
Press **OK** to enter the selected program.



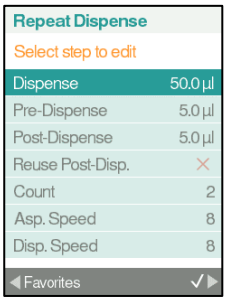
Insert the GripTips into the liquid to be transferred. Press and release the **RUN key** to aspirate the volume selected in the first step.

Your pipette will prompt you to press the **RUN key** at each successive step.

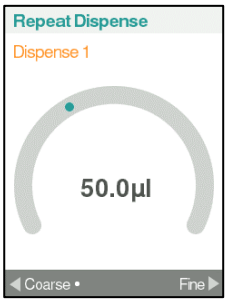
Setting/changing parameters



Press **OK** to Edit the program.



A list of editable steps is displayed.
Select a step and press **OK**.



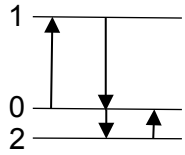
Use the **Touch Wheel** to set the value and press **OK**.
Press ▶ to save your settings.

Installation of Second stage

The **Second stage** can be used as a second position. Source liquids can be placed on the **Base Stage**, and the target, i.e. the well plate, can be slid on the **Second stage** for filling.

- Remove two **Magnetic covers** (c) by using a GripTip.
- Insert the **Second stage** with the desired side (96 or 384 format) facing upwards.

Two Step Blowout



During aspiration, the piston of your electronic pipette moves up (1).

During dispensing, the piston returns to the initial position (0). During the last dispense of a program, it automatically moves further down (2) and blows the remaining liquid from the tip (Blowout).

When the piston returns to the initial position (0), a small amount of air is aspirated, provided the tip is no longer immersed in the liquid (Blowin).

Note: Manually delay the blowin by holding the **RUN key** pressed during the last dispense. Remove the tips from the vessel and release the **RUN key** to start blowin.

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Maintenance

Always switch off the device and disconnect from the electricity supply when carrying out maintenance work.

Clean the MINI 96 housing with a lint-free cloth lightly soaked with mild soap solution in distilled water or with a 70 % solution of isopropanol or ethanol.

If you intend to ship the MINI 96 to be periodically calibrated, the original packaging can be stored and reused for this purpose. Contact INTEGRA for more information about calibration services.

Equipment disposal

MINI 96 must not be disposed of with unsorted municipal waste.
Dispose of MINI 96 in accordance with the regulations in your area governing disposal of devices.

Manufacturer

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CE UKCA

Declaration of conformity

INTEGRA Biosciences AG – 7205 Zizers, Switzerland

declares on its own responsibility that the devices

Description	Models
MINI 96	**4801, 4802, 4803, 4804**

comply with:

EU Directives and Regulations
2014/35/EU, 2014/30/EU, 2012/19/EC, 2011/65/EC, 1907/2006
GBR Regulations
S.I. 2016/1101, S.I. 2016/1091, S.I. 2013/3113, S.I. 2012/3032

Zizers, January 14, 2021

Urs Hartmann
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For detailed CE declaration and regulations of other countries, please refer to the operating instructions.