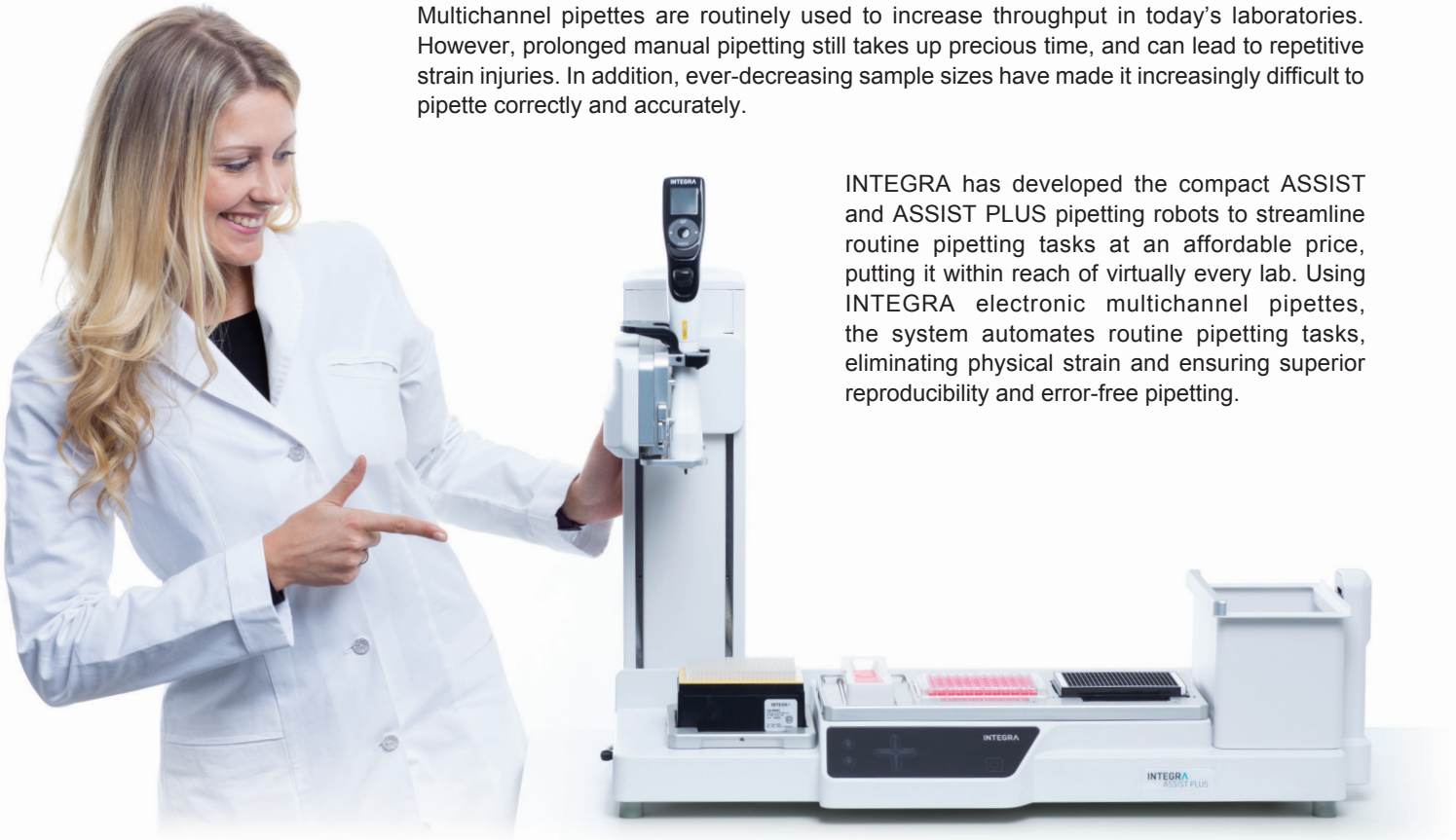
INTEGRA

ASSIST PLUS And ASSIST

Pipetting Robots
Automating Multichannel Pipettes

Freedom from routine pipetting



Multichannel pipettes are routinely used to increase throughput in today's laboratories. However, prolonged manual pipetting still takes up precious time, and can lead to repetitive strain injuries. In addition, ever-decreasing sample sizes have made it increasingly difficult to pipette correctly and accurately.

INTEGRA has developed the compact ASSIST and ASSIST PLUS pipetting robots to streamline routine pipetting tasks at an affordable price, putting it within reach of virtually every lab. Using INTEGRA electronic multichannel pipettes, the system automates routine pipetting tasks, eliminating physical strain and ensuring superior reproducibility and error-free pipetting.

Simplifying routine pipetting for many applications

Reformatting

Reformatting samples from one format to another – e.g. from tubes into plates – is a tedious and error -prone task. ASSIST PLUS reformats your samples automatically, taking full advantage of the VOYAGER adjustable tip spacing pipette to process tubes and plates up to 12 times faster than with a single channel pipette.

Serial dilutions

Performing serial dilutions by hand requires focus and good pipetting skills. ASSIST makes sure your serial dilutions are performed reproducibly and error-free. With the ASSIST PLUS, tips can be exchanged after every transfer to minimize carryovers clinging to the tip surface.

Plate filling & reagent addition

Setting up assay plates typically requires the addition of multiple samples and buffers or media. The flexible deck layout of the ASSIST PLUS accommodates tubes, reservoirs and plates, enabling multi-step transfers to the assay plate.

Excellent results and unmatched ergonomics

Automating pipetting processes with ASSIST or ASSIST PLUS ensures constant pipetting angles, consistent tip immersion depths and accurate well targeting. This eliminates inter-operator variability and human errors – such as skipping rows or air aspiration – leading to enhanced process control, increased workflow consistency and better pipetting results.

Regardless of how lightweight and well balanced a pipette is, prolonged pipetting tasks result in physical strain for the operator. ASSIST and ASSIST PLUS relieve you of the pipetting burden and help to prevent repetitive strain injuries (RSI). Not holding a pipette at all is the most ergonomic solution!

ASSIST/ASSIST PLUS automated multichannel pipetting offers:

- precise tip positioning in wells
- optimal tip immersion depths
- consistent pipetting angle
- controlled pipetting speeds
- no pipetting mistakes
- strict adherence to pipetting programs

Consistent and reproducible pipetting results

Automating your pipetting has never been easier

Program directly on the pipette

Many applications require basic pipetting patterns, such as filling a plate or performing serial dilutions. These can be programmed directly on the pipette using the intuitive touch wheel interface. Simply choose a predefined program and adapt the default settings to your requirements.

Program on a computer

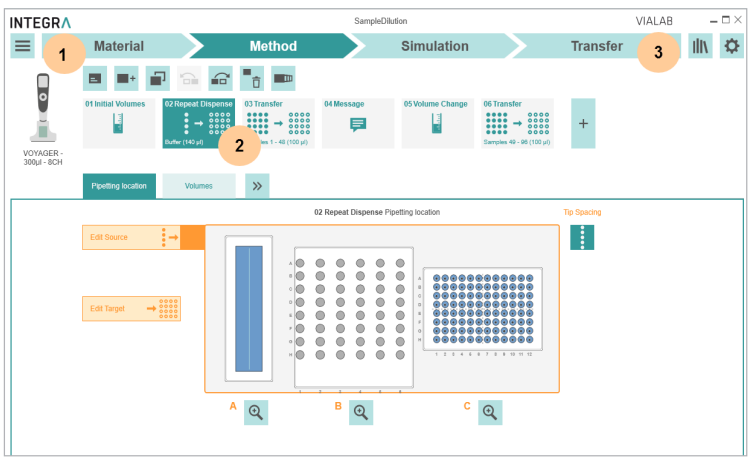
VIALAB (ASSIST PLUS only)
For more complex workflows, VIALAB software offers a simple and intuitive graphical user interface, allowing you to create protocols with a few clicks, without extensive programming knowledge.

VIALINK (ASSIST/ASSIST PLUS)
VIALINK offers advanced users the ultimate freedom of defining pipetting programs step by step.

Programs from VIALAB/VIALINK can be easily transferred to the pipette via communication stand (PN 4211).

VIALAB gets you started in just three steps:

1. Add your materials: pipette, tip, labware
2. Define pipetting steps, e.g. repeat dispense
3. Transfer the protocol to the pipette

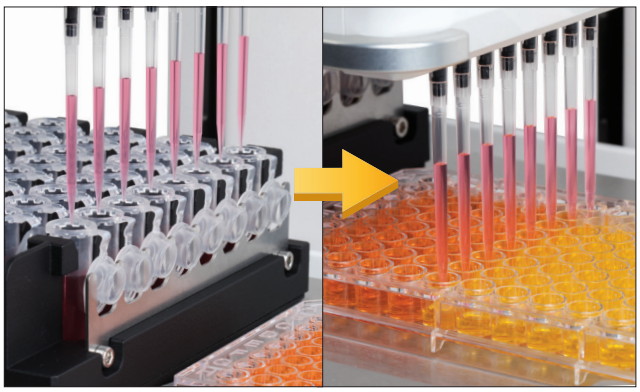


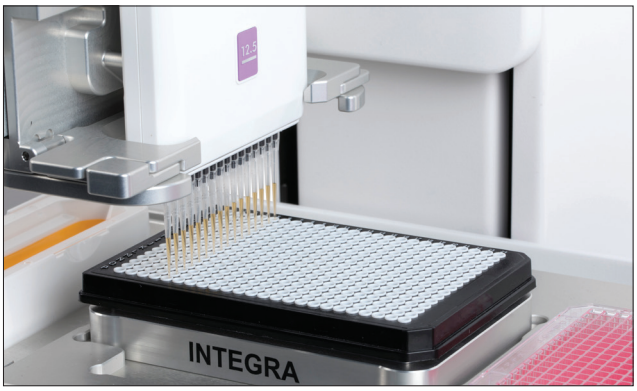
Unbeatable value

A pipetting robot is a considerable investment for many laboratories. The ASSIST and ASSIST PLUS are designed to offer exceptional flexibility at an affordable price, without the need for dedicated personnel or complex programming.

The unique design means that the ASSIST or ASSIST PLUS will never become obsolete – simply swap in another of INTEGRA's 25 multichannel pipettes to access new applications – and you can still use the same pipettes for manual activities.

INTEGRA offers a wide range of electronic multichannel pipettes – from 4 to 16 channels – enabling precise and accurate liquid transfers from 0.5 to 1250 µl. This means that you can always select the optimal volume range for your application.





Equipping the ASSIST PLUS with a VOYAGER pipette enables on-the-fly adjustment of tip spacing, allowing multichannel sample reformatting – eg. from tubes to plates – and access to various labware types.

ASSIST PLUS is the smallest and most economical pipetting robot offering variable tip spacing!

Broad labware compatibility

ASSIST PLUS can accommodate numerous labware types – from tubes to 384-well plates in landscape and portrait orientations – while ASSIST is ideal for single plate applications. Both instruments work with INTEGRA multichannel reservoirs, which are available in 10, 25 and 100 ml sizes and offer exceptionally low dead volumes. For larger storage volumes, INTEGRA's automation-friendly reservoirs can be used with the ASSIST PLUS.

0.5, 1.5 and 2.0 ml microcentrifuge tubes

Hold up to 48 tubes on removable carriers for easy loading and storage.

0.2 ml PCR tubes and 96-/384-well PCR plates

The aluminum cooling block serves as a holder for 0.2 ml PCR tubes and keeps reagents chilled. It can also accommodate PCR plates.

Other tube types

With these adapters ASSIST PLUS can also access 15 ml centrifuge tubes, 5 ml test tubes and cryogenic tubes.

10, 25, 100, 150 and 300 ml reagent reservoirs

INTEGRA's reservoirs are designed for minimal dead volume. The reservoirs system consists of low-cost, stackable, reservoirs with clearly marked, graduated and reusable bases.

Overview of ASSIST pipetting robots

Model	ASSIST	ASSIST PLUS
Part No.	4500	4505
Tip loading/ejection	Manual	Automatic
Pipetting protocol set-up	Pipette VIALINK	Pipette VIALINK VIALAB
Pipetting in even/odd rows and columns (e.g. access 384-well plates with 8 channels)	Manual switch	Automatic
Available pipettes	VIAFLO	VIAFLO VOYAGER (adjustable tip spacing)
Labware	12 to 384 well plates 0.2 ml PCR strip tubes INTEGRA multichannel reservoirs (10, 25 & 100 ml)	12 to 384 well plates Various tubes (see tube racks) INTEGRA multichannel reservoirs (10, 25 & 100 ml) INTEGRA automation-friendly reservoirs (150 & 300 ml)
Applications	Serial dilution Plate filling Reagent addition	Serial dilution Plate filling Reagent addition Plate reformatting Plate duplications Tube-to-plate transfers
Dimensions (H x D x W)	40x36x34 cm (16"x14"x13")	51x38x75 cm (20"x15"x30")
Weight (kg)	10 kg (22 lbs)	25 kg (55 lbs)

Ordering information

Visit the *parts and numbers* section on our website to view all available accessories and consumables.

1. Choose a base instrument

Description	Part no.
ASSIST base unit	4500
ASSIST PLUS base unit, including tip waste bin and pipette charging cable	4505

INTEGRA electronic pipettes

(Bluetooth and power supply not included)

VIAFLO

VOYAGER

2. Select one or more pipettes

		VIAFLO	VOYAGER
4 channels	10-300 µl	x	4743
	50-1250 µl	x	4744
6 channels	10-300 µl	x	4763
	50-1250 µl	x	4764
8 channels	0.5-12.5 µl	4621	4721
	2-50 µl	4626	4726
	5-125 µl	4622	4722
	10-300 µl	4623	4723
	50-1250 µl	4624	4724
12 channels	0.5-12.5 µl	4631	4731
	2-50 µl	4636	4736
	5-125 µl	4632	4732
	10-300 µl	4633	x
	50-1250 µl	4634	x
16 channels	0.5-12.5 µl	4641	x
	2-50 µl	4646	x
	5-125 µl	4642	x

Accessories

Description	Part No.
Bluetooth module (for VIAFLO/VOYAGER pipettes)	4221
Charging/communication stand (single pipette)	4211
Bags for tip waste bin (200 bags)	4570
Rack for 0.5 ml microcentrifuge tubes	4541
Rack for 1.5/2 ml microcentrifuge tubes	4540
Rack for 5 ml test tubes (12x75 mm type), 6x8 tubes	4543
Rack for 15 ml centrifuge tubes, 4x6 tubes	4542
Slanted Plate Holder (0°-30°)	4510
Rack for cryogenic tubes, 6x8 tubes	4544
PCR 96 well cooling block	6250
PCR 384 well cooling block	6255

Reagent reservoirs

Volume		Description	Part No.
10 ml For use with 8 and 16 channel pipettes		Trial pack, sterile, multichannel reservoir	4330
		30 individually sealed, sterile, multichannel reservoir	4331
		200 bulk, sterile, multichannel reservoir	4332
		10 reservoir bases, multichannel reservoir	4306
25 ml For use with 8, 12 and 16 channel pipettes		Trial pack, sterile, multichannel reservoir	4310
		30 individually sealed, sterile, multichannel reservoir	4311
		200 bulk, sterile, multichannel reservoir	4312
		10 reservoir bases, multichannel reservoir	4304
100 ml For use with 8, 12 and 16 channel pipettes		Trial pack, sterile, multichannel reservoir	4320
		30 individually sealed, sterile, multichannel reservoir	4321
		200 bulk, sterile, multichannel reservoir	4322
		10 reservoir bases, multichannel reservoir	4305
150 ml		8 reservoir bases, non-sterile, automation friendly	6301
		25 lids, sterile, automation friendly	6302
		Trial pack, sterile, automation friendly	6303
		30 individually sealed, sterile, automation friendly	6317
		100 bulk, sterile, automation friendly	6318
300 ml		8 reservoir bases, Non-Sterile, automation friendly	6305
		25 lids, sterile, automation friendly	6306
		Trial pack, sterile, automation friendly	6307
		30 individually sealed, sterile, automation friendly	6327
		100 bulk, sterile, automation friendly	6328

GripTips for use with ASSIST and ASSIST PLUS (for more GripTip options, please refer to our website)

		Filter Sterile	Sterile	Non-sterile
Tip Size	**Description**	**Part no.**	**Part no.**	**Part no.**
12.5 µl	5 XYZ racks of 384 tips	6455	6454	6453
50 µl / 125 µl	5 XYZ racks of 384 tips	6465	6464	6463
300 µl	5 racks of 96 tips	6435	6434	6433
	GREENCHOICE Refills, 5 inserts of 96 tips	-	-	6432
1250 µl	5 racks of 96 tips	6445	6444	6443
	GREENCHOICE Refills, 5 inserts of 96 tips	-	-	6442

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