Purely Linear Processing Magtration DNA/RNA Extraction Time proven Amplification Flexible multi color Detection

genelead XII plus

Produced by Precision System Science Co., Ltd.

Plus: Ultra Sonication

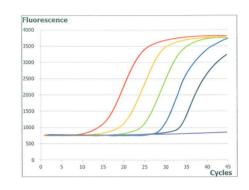
Available for Home Brew Reagent

- Infectious diseases
- SNPs
- Human ID
- Oncology
- Veterinary / Plant

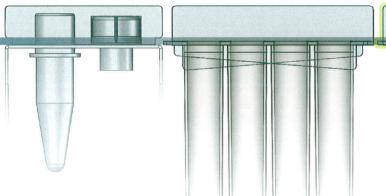
Device Overview

Total automation from extraction through amplification and detection

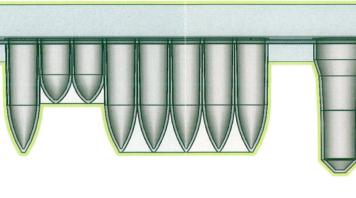
The geneLEAD XII automates all operations from nucleic acid extraction to amplification and detection.

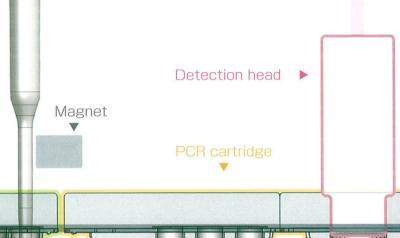


Ultrasonic rack Tip rack Reagent cartridge









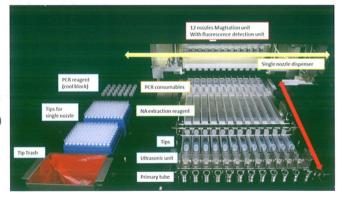


Stage

The geneLEAD system is designed based on a linear process prompt.

This design approach has a number of advantages:

- O Prevention of cross contamination between lanes
- Easy testing setup (supported with GUI guidance)
- O Easy user maintenance





The MagDEA Dx SV is designed using a Universal Design approach.

It is the optimal nucleic acid extraction reagent for the geneLEAD system, which offers superb testing flexibility.

- O With single control, extraction is possible from a variety of sample types (Ex: Total nucleic acid from whole blood genome DNA, serum, plasma, urine, and swab)
- O Sample volume can be selected from 200µL or 400µL
- O Elution volume can be adjusted for PCR assay
- OAutomated reagent control using 2D coding



A mplification

The geneLEAD fulfills a variety of PCR reagent requirements by including a 12-unit thermocycler that can precisely and independently control temperature.

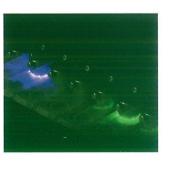
- High temperature control (±0.3°C at 60 95°C setting)
- Rapid temperature control (heating: 5.0°C/sec; cooling: 7.0°C/sec)
- O Completely independent control allows up to 12 thermocycling protocols in the same run



Detection

The geneLEAD system detection unit is optimized for PCR assays and allows 6-channel fluorescent detection.

- O Using six fluorescent channels enables application of an array of fluorescent colors
- O Using a unique fluorescent data acquisition method maximizes the effect of independent themocyclers
- O LED light source makes for long life and easy maintenance



Specification Overview



Instrument type

Number of samples

Extraction sample liquid volume

PCR reaction liquid volume

Temperature control

Dimensions

Weight

Detection system

Extraction reagent

Benchtop

12

 $200 \,\mu\text{L}$ or $400 \,\mu\text{L}$

20 - 50 μL

PCR unit:45 - 95℃

(12-channel independent control)

Extraction unit:70 - 95℃

H850 × W1000 × D750 mm

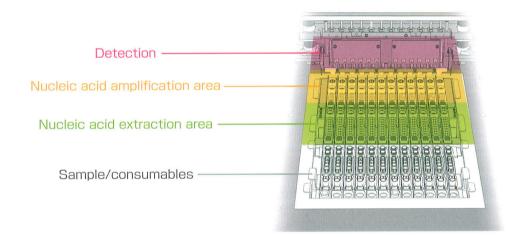
Approx. 190 kg

6 channel fluorescent measurement

MagDEA Dx SV

Total nucleic acid from whole blood, serum, plasma, urine, and swab

Layout



Fields of application

- O Infectious diseases
- O SNPs
- O Human ID

- Oncology
- O Veterinary / Plant

Other features

geneLEAD is

- O equipped with a barcode reader to manage/ control sample, elution tube, reagent, etc.
- O capable of transferring sample from primary tube to secondary tube (processing stage)



•For customers in Asia / Pacific

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