Specification Overview



Instrument type	Benchtop
Number of samples	12
Extraction sample liquid volume	200 μ L or 400 μ L
PCR reaction liquid volume	20 - 50 µL
Temperature control	PCR unit:45 - 95°C (12-channel independent control) Extraction unit:70 - 95°C
Dimensions	H850×W1000×D750 mm
Weight	Approx. 190 kg
Detection system	6 channel fluorescent measurement
Extraction reagent	MagDEA Dx SV Total nucleic acid from whole blood, serum, plasma, urine, and swab

Layout



Fields of application

- Infectious diseases
- ⊖ SNPs
- O Human ID

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)



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O The performance, specifications and appearance of products described in this catalogue are subject to change without prior notice.

○ The information in this catalogue is current as of January, 2015.

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

geneLEAD XII plus

Produced by Precision System Science Co., Ltd.

PIUS: Ultra Sonication

Available for Home Brew Reagent

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

Oncology

○ Veterinary / Plant



Linear

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)
- Easy user maintenance



mplification

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

- \bigcirc 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

xtraction

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.

- 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)
- \bigcirc Sample volume can be selected from 200 μ L or 400 μ L
- O Elution volume can be adjusted for PCR assay
- OAutomated reagent control using 2D coding

Jetection

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

○ LED light source makes for long life and easy maintenance



