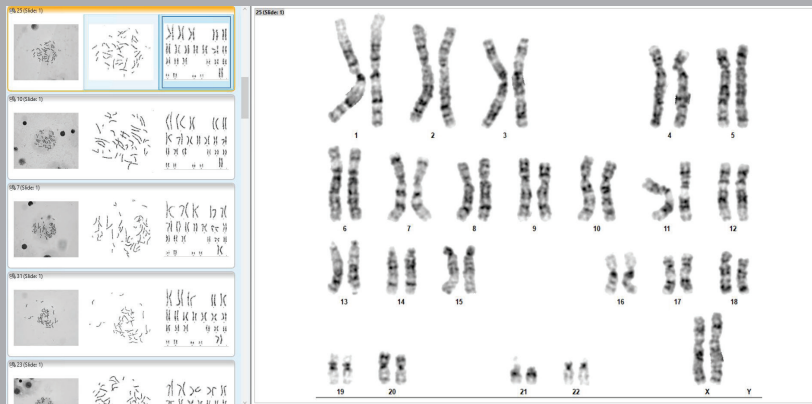




Every
Diagnosis
Counts

HiBand

Artificial Intelligence based Chromosome Analysis
and Karyotyping Solution



POWERED BY
GENASIS

ASI APPLIED
SPECTRAL
IMAGING

A Novel End-to-End Automated Cytogenetic Workflow for High Throughput Karyotyping

Digitize slides, analyze chromosomes and karyotype in a click of a button

For the accurate identification of genetic abnormalities and cancers

Scan&Capture >>> Preview >>> Approve Analysis >>> Report >>> Complete!

1
Scan
& Capture



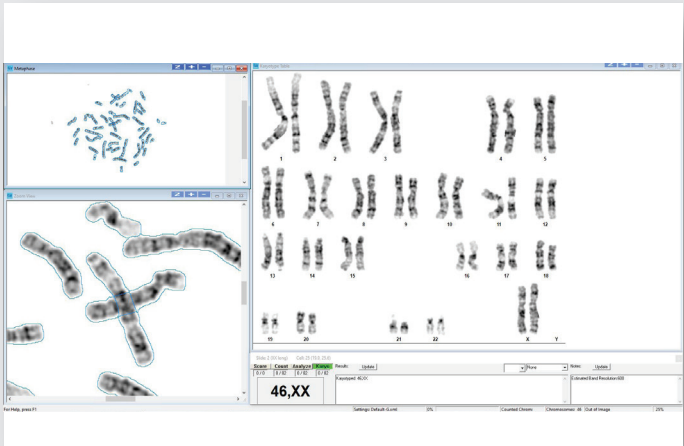
Digitize your slide. Metaphase Finder identifies the best cells for analysis.

2
Preview



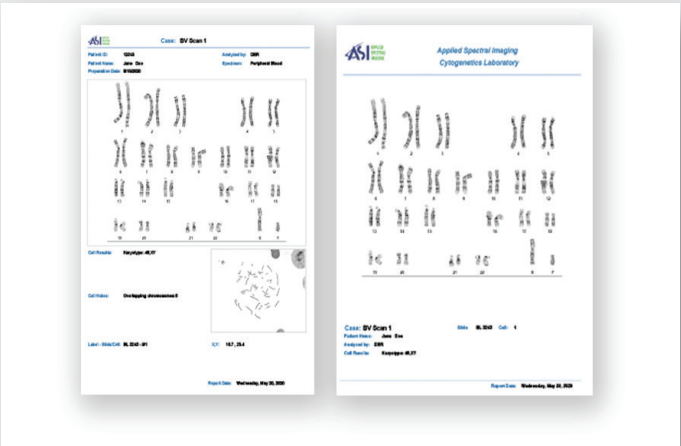
Successfully segmented and karyotyped metaphases are available for review and approval while scanning.

3
Approve
Analysis



Karyotype at a click of a button based on AI features analysis.

4
Report



Submit a customized report with full case details.

Digital Chromosome Analysis System



Optimized Productivity

Fully automated workflow, digital AI features analysis and full integration maximize lab efficiency



Diagnostic Confidence

Smart scanning, superb image quality and powerful algorithms



Turnaround Time

is significantly reduced

Cutting edge scanning, imaging and analysis instrumentation using AI features for high throughput



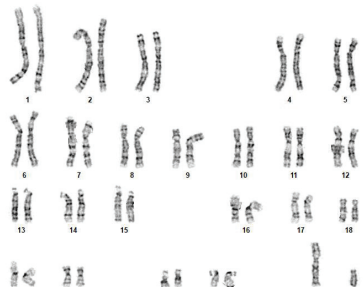
“HiBand doubled our lab productivity in Bone Marrow samples and tripled our productivity in Blood samples.”

Nettie Rietema, University Medical Center Groningen, NL

Behind the Scenes

Functional Tools for Accurate Analysis- Quality, Accuracy, Ease-of-Use

Feature Rich Review & Analysis



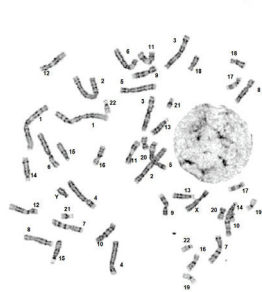
Karyotype

High accuracy of automated karyotyping, with auto ISCN, auto bands estimation and auto overlap score



Count

Accurate automatic chromosome counting

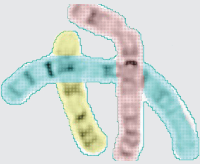


Analyze

Fast and easy chromosome indexing and classification

Easy Separation

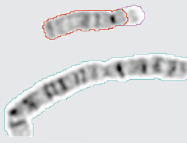
“Magic Tool” combining 12 operations in a simple mouse click



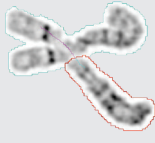
Overlap



Split



Extend



Combine



Saves hundreds of mouse-clicks per karyotype!

Advanced Onscreen Supervisor or Director Review

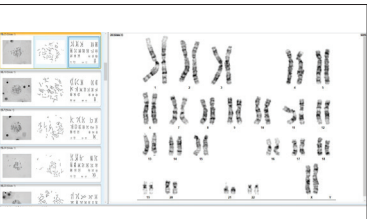
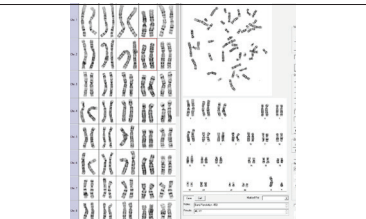


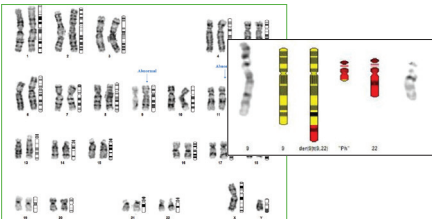
Image Gallery

Display of all case metaphases and karyotypes



Chromosome Compare

All captured cells and chromosomes side by side



Aberrant Ideogram

Chromosomes, cells, ideograms and annotations in an image generator

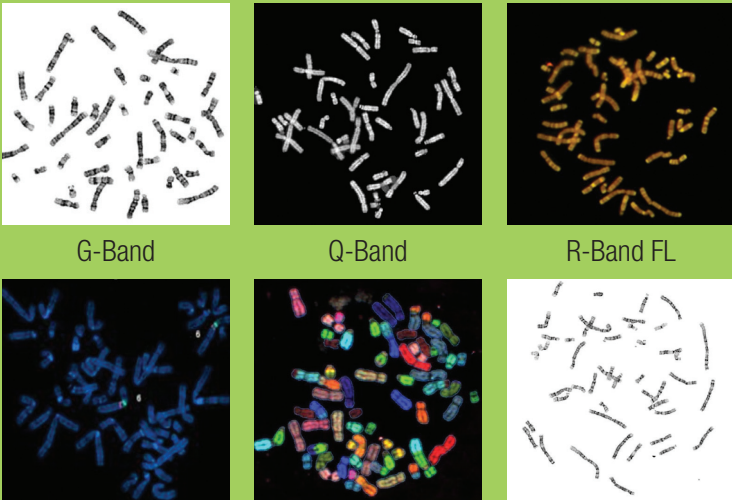
Automatic Slide Scanning and Metaphase Finder

Classifier Captures the Best Metaphases for Analysis



High resolution 5MP camera sensor combined with a high quality 100x immersion oil objective

Broad Staining and Sample Menu



✓ Blood ✓ Bone Marrow ✓ Amniotic Fluid ✓ CVS

Become a Data-Driven Lab with LabLife

Generate lab performance statistics LabLife™ for Lab Management



Benchmarks

Calculate performance benchmarks and track your KPIs. Meet certification and regulatory requirements



Optimization

Identify best practices to increase ROI per case and focus improvement efforts



Growth

Justify investment in additional capital equipment for the lab

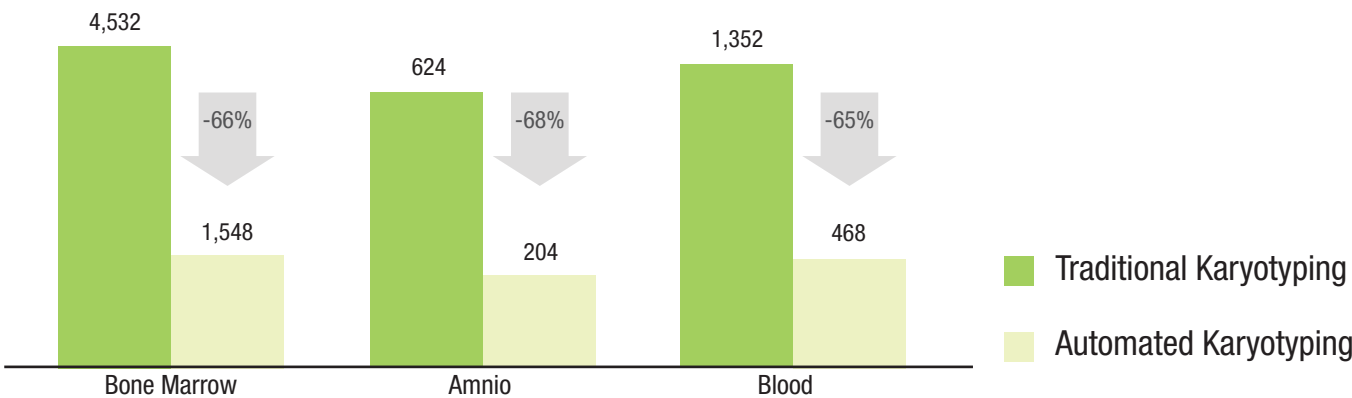


Annual analysis and review

Compare performance year on year and make data driven decisions

Increased Lab Productivity

66% Technologist Time Saving (Hours / Month)



Free technologist time to where their expertise is needed most



Click for Atlas

Reference Atlas for higher assurance

Atlas provides the expert support you need to investigate, research, and confirm challenging abnormalities.

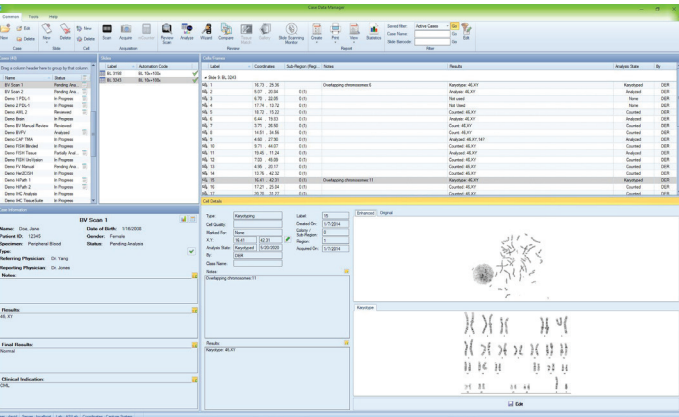
This new feature is located in BandView's toolbar for easy access during the analysis process.

<http://atlasgeneticsoncology.org/>

Data Management and Connectivity

Modern Paperless Workflow

Central Portal and Database Easily Integrates with Lab LIS



Case Data Management (CDM)

- ✓ Efficient
- ✓ Comprehensive
- ✓ Eliminates human error

Work from Anywhere

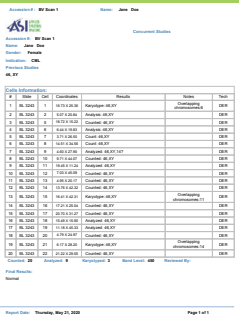
GenASIs AnyWhere™ for Remote Access

Lab Connectivity Anytime, Anywhere

Review, analyze and sign off case information from any location via a secured network



Advanced Reporting



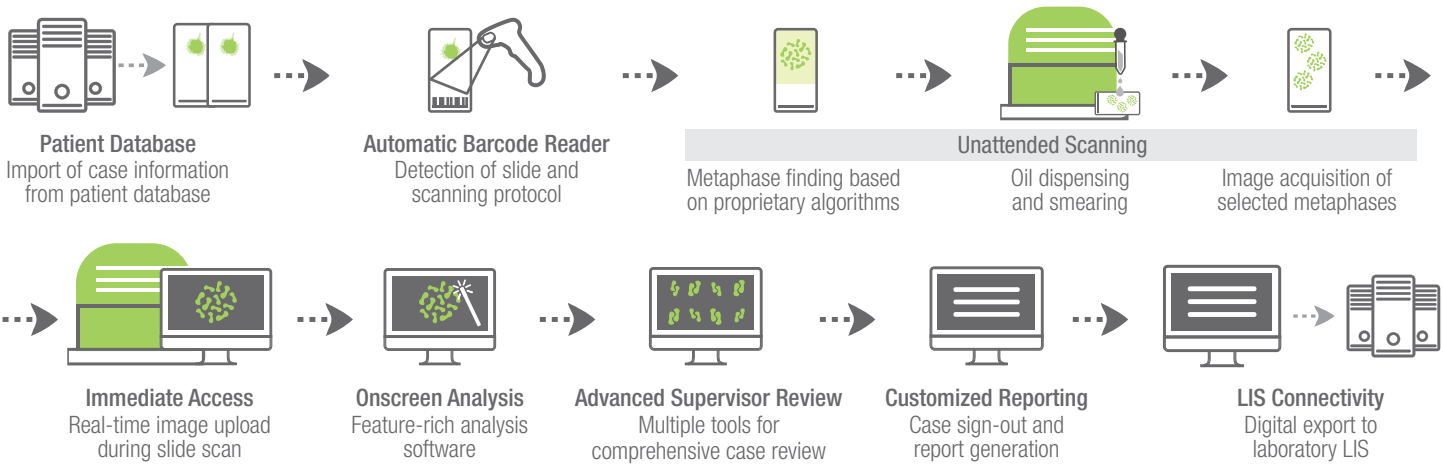
1D/2D Barcode Reader



LIS Connectivity

- ✓ Performance
 - ✓ Security
 - ✓ Data Integrity
- HIPAA Compliant

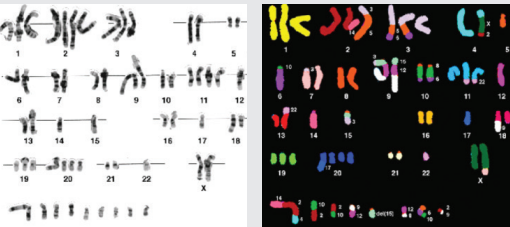
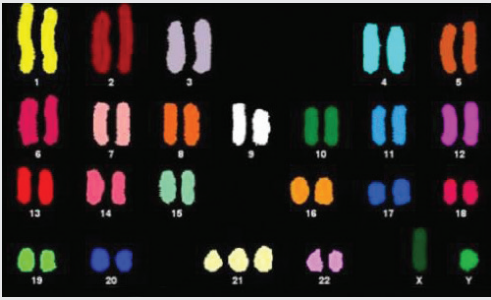
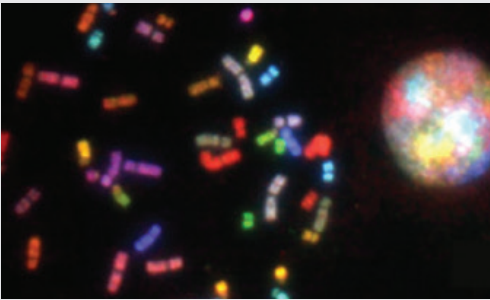
Fully Automated Workflow



HiSKY* Gold Standard Spectral Karyotyping

Multi-Color FISH Analysis for Result Verification

- ✓ Automatic identification of translocations and chromosomal origins
- ✓ Simultaneous detection of chromosomal aberrations in one hybridization
- ✓ Measurement of entire spectrum at each point



Brain Tumor



Ewing Sarcoma

*HiSKY is an add on application for research purposes

ASI Company Overview

Applied Spectral Imaging (ASI) is a global leader in biomedical imaging with a comprehensive product portfolio and a global distribution footprint.

Founded in 1993, ASI markets, services and supports its products in nearly 60 countries. The Company's technology, powered by GenASIs, enables pathology, cytogenetics and research laboratories to provide advanced diagnostics to patients through superior digital diagnostic tools.

ASI has a wide portfolio of dedicated solutions for brightfield, fluorescence and spectral imaging and analysis, including HiPath Pro, PathFusion, HiBand, HiFISH, CytoPower and Rainbow.

ASI's wide FDA clearance portfolio includes: FDA clearance for BandView, FISHView, SpotScan for CEP XY, UroVysion, ALK and HER2/neu FISH, and for HiPath IHC Family for HER2, ER, PR, and Ki67, on the manual configuration

The Company has offices in the US and Asia and a global network of distribution partners.

Global Presence

4,500

Systems installed worldwide

86

Countries through direct & indirect sales forces

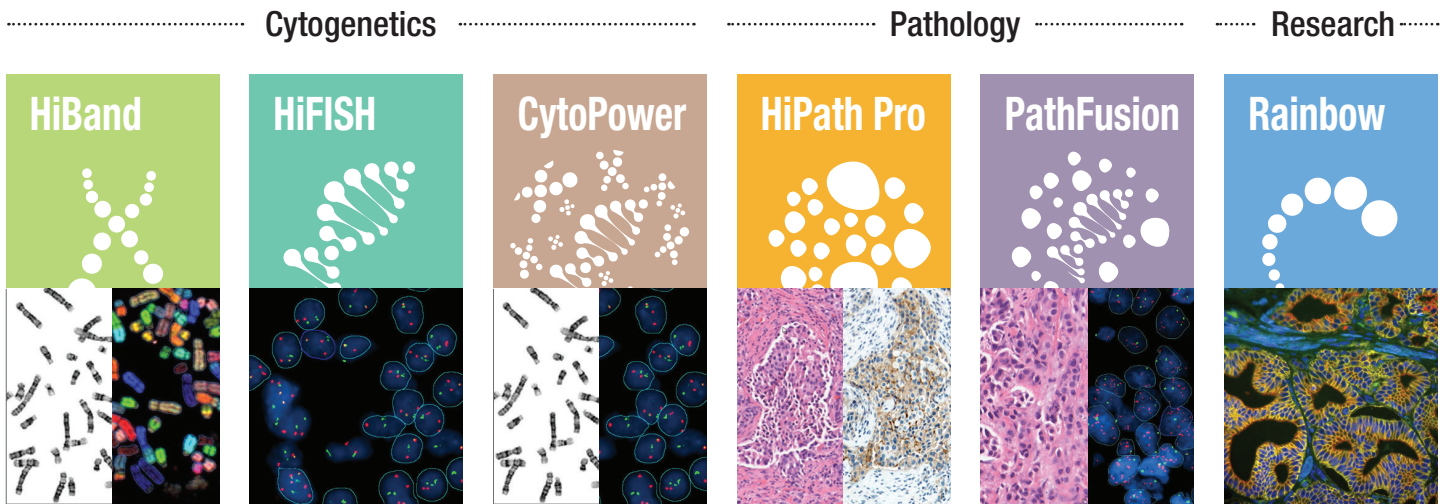
71

Third party distribution partners

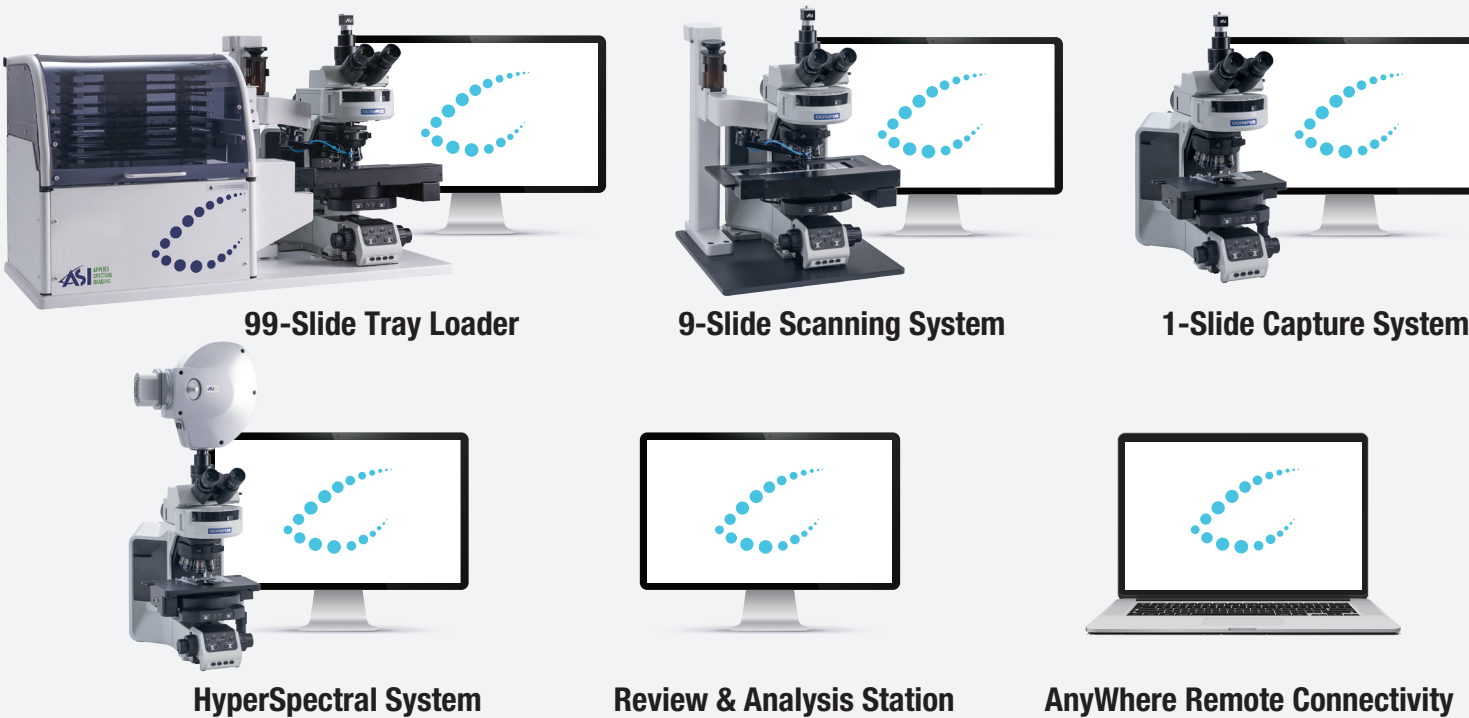


The Company's Product Portfolio

Imaging & Analysis Solutions for Laboratories



Diverse platforms to accommodate all laboratory needs

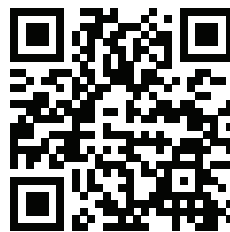


System Specifications



	Manual 1 Slide	9 Slide Motorized Stage	99 Slide Tray Loader	HyperSpectral 1 Slide
Microscope Support	BF upright microscopes	OLYMPUS BX61 BF OLYMPUS BX63 BF ZEISS AxioImager Z2 BF	OLYMPUS BX61 BF OLYMPUS BX63 BF ZEISS AxioImager Z2 BF	BF and FL upright microscopes
Objectives	10x/0.3 NA 100x/1.3 NA	1.25x/0.04 NA (Optional) 10x/0.3 NA 100x/1.3 NA	1.25x/0.04 NA (Optional) 10x/0.3 NA 100x/1.3 NA	10x/0.3 100x/1.3
Camera	5MP CMOS Monochrome	5MP CMOS Monochrome	5MP CMOS Monochrome	Spectral 1.3MP Monochrome
Slide Capacity	1 slide (Manual or Motorized)	9 slides	99+ slides	1 slide (Manual or Motorized)
Barcode Reader	Handheld 1D/2D	Handheld 1D/2D	Integrated 1D/2D	Handheld 1D/2D
Automated Oil Dispenser	N/A	Optional	Integrated	N/A
Dimensions [WxDxH]	According to clients microscope	61cm x 69cm x 85cm (24" x 27.2" x 33.5")	100cm x 90cm x 90cm (39.4" x 35.5" x 35.5")	According to clients microscope
Weight	According to clients microscope	45kg 99.2lb	80kg 176.4lb	According to clients microscope

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