ILJIN

ILJIN is the parts/material specialized company that represents Korea. Since its foundation in 1968, ILJIN has been promoting localization and has been pioneering the tough road of glorifying Korea with technology. It started to open the chapter in parts and material industries by developing high-value-added products such as power distribution fitting, copper-clad steel wire, industrial diamond, PCB circuit board independent and had been relying heavily on the import.

From ultrasound medical devices to industrial diamond, seamless steel tubes to light bulbs and heavy electric machines, and LED lighting that shines the world, you can encounter ILJIN’s technology in your daily life at anytime.

Creating happier future behind the scene.

ILJIN MEDICAL SYSTEMS became a member of ILJIN in 2008.

GLOBAL ALPINION HEADQUARTERS
Verdi Tower, 72, Digital-ro 26-gil, Guro-gu, Seoul, 08393, Korea

MKT-EL-PC-E1511-02

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Catalogue contents may be partly changed without prior notice to customers due to performance enhancements.
ALPINION MEDICAL SYSTEMS specializes in ultrasound including acoustic, diagnostic, and the therapeutic ultrasound based on our core imaging technologies. Since we began our ultrasound business in 2007, we have focused on developing core technologies and delivering the best value to our customers. As a value innovator in the medical industry, ALPINION progressively expands our business scope vertically and horizontally in every ultrasound area.

We are Ultrasound Professionals

ALPINION’s Innovative Ultrasound Technology

Technology leverages customer value. ALPINION’s innovative and recognized ultrasound brand E-CUBE principles (Extreme Clarity, Efficient Workflow, Ergonomic Design) reflect ALPINION’s technological philosophy that provides customers with uniform image quality throughout the product lifetime.
Exclusively for those who demand the highest quality diagnosis for their patients in the most challenging of cases, the E-CUBE 15 EX consistently delivers speed, throughput and accuracy. The E-CUBE 15 EX seamlessly integrates ALPINION proprietary imaging technologies, crafted transducer set and intuitive application software. The ALPINION’s unique FleXcan™ Architecture, the software-based imaging platform, guarantees uniform image quality and performance, and easy upgrade to maintain the system level to the most latest one.

Confident Diagnosis, Confident Decisions with Flexible Solutions

Main Features
- Elastography
- Live HQ™
- Auto NT
- CUBE Strain™
- Store Echo
- CW
- Tissue Doppler Imaging
- Anatomical M-mode
- Cardiac Measurement & Report package
- Needle Vision™ / Needle Vision™ Plus
- Speed™
- Auto IMT
- Panoramic Imaging
- SRI / FullSRI™ (Speckle Reduction Imaging)
- SCI (Spatial Compound Imaging)
- FCI (Frequency Compounding Imaging)
- FTNI (Filtered Tissue Harmonic Imaging)
- CUBE View™

Crystal Signature™
- Optimal Imaging Suite™
- FleXcan™ Architecture
- MicroFit™
- SensitiView™
- Acoustic / System / Imaging Technology

Premium Transducer Portfolio
- Convex SC5-4H SC5-4H-S SC3-4H SC3-4H-S SC5-8 SC5-8N
- Volume Convex SC5-4H SC5-4H-S SC3-4H SC3-4H-S SC5-8 SC5-8N
- Linear LS-12H LS-12H LS-17X LS-17X LS-8 K11-12 KH-17
- Phased MP1-5X SP1-5X SP1-5X SP1-5X SP1-5X
- Endocavity EC3-10X EV3-10R EV3-10R EV3-10R EV3-10R EV3-10R
- TEE EC3-5 EC3-5 vs EC3-5 vs EC3-5 vs EC3-5 vs EC3-5 vs EC3-5
- CW CW CW CW CW CW

Premium Transducer Portfolio
- Single Crystal Transducer
- Extreme High-density Transducer
- High-density Transducer
- Wide-angle Transducer

Specification
- 19.5" Wide LED/ 10.4" Touch panel
- Tilt : 15°(Up) / 90°(Down)
- Weight : 106kg
- Height : 1,413/1,848 mm
- Width : 580mm
- Depth : 895mm
- 4 active transducer ports (High-density)
- ECG port, CW port
- 8 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity
The outstanding quality of the E-CUBE 9 DIAMOND enables a refined acoustic technology that precisely manages and handles ultrasound signals. ALPINION’s unique and flexible imaging platform, FleXcan™ Architecture enhances system stability and helps to maintain system performance to the latest software version. The reliable imaging platform guarantees uniform image quality.

The unique imaging platform and proprietary acoustic technology of the E-CUBE 9 DIAMOND delivers uniform image quality and crystal clear image performance to clinicians.

**Main Features**
- Live HQ™
- Auto NT™
- CUBE Strain™
- Stress Echo
- CW
- Tissue Doppler Imaging
- Anatomical M-mode
- Cardiac Measurement & Report package
- Needle Vision™ / Needle Vision™ Plus
- SRI / FullSRI™ (Speckle Reduction Imaging)
- SCI (Spatial Compounding Imaging)
- FCI (Frequency Compounding Imaging)
- FTHI (Filtered Tissue Harmonic Imaging)
- CUBE View™
- SRI / FullSRI™
- SCI (Spatial Compounding Imaging)
- FCI (Frequency Compounding Imaging)
- FTHI (Filtered Tissue Harmonic Imaging)
- CUBE View™

**Specification**
- 19.5” Wide LED monitor
- Tilt : 10° (Up) / 90° (Down)
- Weight : 90kg
- Height : 1,340/1,570 mm
- Width : 590mm
- Depth : 830mm
- 3 active transducer ports (High-density)
- 5 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity

**Transducer Portfolio**

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<tr>
<th>Convex</th>
<th>SC1-4H</th>
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</table>

- Single Crystal Transducer
- High-density Transducer

**Acoustic / System / Imaging Technology**
- Crystal Signature™
- Sensitivity View™
- Sensitivity View™
- FleXcan™ Architecture

**Main Features**
- Live HQ™
- Auto NT™
- CUBE Strain™
- Stress Echo
- CW
- Tissue Doppler Imaging
- Anatomical M-mode
- Cardiac Measurement & Report package
- Needle Vision™ / Needle Vision™ Plus
- SRI / FullSRI™ (Speckle Reduction Imaging)
- SCI (Spatial Compounding Imaging)
- FCI (Frequency Compounding Imaging)
- FTHI (Filtered Tissue Harmonic Imaging)
- CUBE View™

**Continuous Innovation**
**Superior and Reliable**

CUBE View™
Real time Image sharing
Remote access with a tablet PC and a smart phone

- 19.5” Wide LED monitor
- Tilt : 10° (Up) / 90° (Down)
- Weight : 90kg
- Height : 1,340/1,570 mm
- Width : 590mm
- Depth : 830mm
- 3 active transducer ports (High-density)
- 5 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity
ALPINION’s the E-CUBE 9 offers excellent image qualities and durability consistently regardless of time. Based on ALPINION’s superb image technologies, the E-CUBE 9 provides outstanding imaging performance when diagnosing high volume of patients. It delivers high quality images without the case dependency by the integration of ALPINION’s core image technologies (OIS™ and a series of acoustic technologies) and the wide bandwidth imaging through the Crystal Signature™, ALPINION’s unique single crystal technology.

Everlasting Pure Quality

**Main Features**
- Live HQ™
- Auto NT
- CUBE Strain™
- Stree Echo
- CW
- Tissue Doppler Imaging
- SRI / FullSRI™ (Speckle Reduction Imaging)
- SCI (Spatial Compounding Imaging)
- FCI (Frequency Compounding Imaging)
- FTHI (Filtered Tissue Harmonic Imaging)
- CUBE View™

**Acoustic / System / Imaging Technology**
- Crystal Signature™
- MicroFit™
- Sensitiview™
- MicroFit™
- Optimal Imaging Suite™
- FleXcan™ Architecture

**Specification**
- 19.5” Wide LED monitor
- Tilt : 10°(Up) / 90°(Down)
- Weight : 90kg
- Height : 1,340/1,570 mm
- Width : 590mm
- Depth : 830mm
- 3 active transducer ports (High-density)
- 5 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity

**Transducer Portfolio**
- Convex: C1-4H, SC1-6, C1-6, C5-8, C5-8N
- Volume Convex: C1-6, C5-8, C5-8N
- Linear: L3-12H, L3-12H, L1-17H, L1-17, L5-12, L8-17
- Phased: S5-5H, S8-5H, S10-5H
- Endocavity: EVS-5H, EVS-5H
- CW: CH2-0, CH5-0

**Main Features**
- STD / PRO
- Crystal Signature™
- MicroFit™
- FleXcan™ Architecture
- Acoustic / System / Imaging Technology
- Convex: C1-4H, SC1-6, C1-6, C5-8, C5-8N
- Volume Convex: C1-6, C5-8, C5-8N
- Linear: L3-12H, L3-12H, L1-17H, L1-17, L5-12, L8-17
- Phased: S5-5H, S8-5H, S10-5H
- Endocavity: EVS-5H, EVS-5H
- CW: CH2-0, CH5-0

**Acoustic / System / Imaging Technology**
- Crystal Signature™
- MicroFit™
- FleXcan™ Architecture
- Optimal Imaging Suite™

**Transducer Portfolio**
- Convex: C1-4H, SC1-6, C1-6, C5-8, C5-8N
- Volume Convex: C1-6, C5-8, C5-8N
- Linear: L3-12H, L3-12H, L1-17H, L1-17, L5-12, L8-17
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**Main Features**
- STD / PRO
- Crystal Signature™
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- FleXcan™ Architecture
- Acoustic / System / Imaging Technology
- Convex: C1-4H, SC1-6, C1-6, C5-8, C5-8N
- Volume Convex: C1-6, C5-8, C5-8N
- Linear: L3-12H, L3-12H, L1-17H, L1-17, L5-12, L8-17
- Phased: S5-5H, S8-5H, S10-5H
- Endocavity: EVS-5H, EVS-5H
- CW: CH2-0, CH5-0

**Transducer Portfolio**
- Convex: C1-4H, SC1-6, C1-6, C5-8, C5-8N
- Volume Convex: C1-6, C5-8, C5-8N
- Linear: L3-12H, L3-12H, L1-17H, L1-17, L5-12, L8-17
- Phased: S5-5H, S8-5H, S10-5H
- Endocavity: EVS-5H, EVS-5H
- CW: CH2-0, CH5-0
Embedded with ALPINION’s core imaging technology and imaging platform, the E-CUBE 7 provides clinicians with excellent 2D, color flow and CW/PW Doppler performance. The E-CUBE 7 is the only system in its class that provides high featured transducers like single crystal convex and phased array. The smart and intuitive application software and features of the E-CUBE 7 empower clinicians to make diagnostic decision with confidence.

**Optimal Solution for Multiple Applications**

**General Imaging**
- High resolution abdominal image from a single crystal convex transducer
- Excellent color/Doppler performance
- Auto trace PW/CW
- Xpeed™: One touch optimization for 2D, Color and Doppler

**Women’s Health**
- Volume Master™: ALPINION’s lucrative 3D/4D engine
- Advanced single crystal convex transducer (SC1-6)
- 60mm wide view linear transducer for breast exam (L3-12H™)
- CUBE View™: Real-time imaging sharing

**Musculoskeletal**
- High performance linear transducer set (L3-8, L3-12, L3-12H™, L3-32H, L8-17)
- Excellent image quality for accurate FNA procedure and needle injection

**Cardiac Imaging**
- High performance Stress Echo and TD1 for cardiac exams
- Pencil transducers for cardiac and vascular exams (CW2.0, CV5.0)
- Excellent CW, PW Doppler performance
- Full measurement echo package and CV tool

**Transducer Portfolio**

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<thead>
<tr>
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**Main Features**
- Live HQ™
- Stress Echo
- CW
- Xpeed™
- Auto IMT
- Panoramic Imaging
- CUBE View™

**Specification**
- 19.5” Wide LED monitor
- Tilt: 30°(Up) / 90°(Down)
- Weight: 57kg
- Height: 1,355/1,425 mm
- Width: 509mm
- Depth: 670mm
- 3 active transducer ports (High-density)
- 6 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity

**Optimal Solution for Multiple Applications**

**Women’s Health**
- Volume Master™: ALPINION’s lucrative 3D/4D engine
- Advanced single crystal convex transducer (SC1-6)
- 60mm wide view linear transducer for breast exam (L3-12H™)
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**Musculoskeletal**
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- High performance Stress Echo and TD1 for cardiac exams
- Pencil transducers for cardiac and vascular exams (CW2.0, CV5.0)
- Excellent CW, PW Doppler performance
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**Transducer Portfolio**

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**Main Features**
- Live HQ™
- Stress Echo
- CW
- Xpeed™
- Auto IMT
- Panoramic Imaging
- CUBE View™

**Specification**
- 19.5” Wide LED monitor
- Tilt: 30°(Up) / 90°(Down)
- Weight: 57kg
- Height: 1,355/1,425 mm
- Width: 509mm
- Depth: 670mm
- 3 active transducer ports (High-density)
- 6 USB ports
- Integrated HDD / DVD R/W Drive
- DICOM 3.0 Connectivity
ALPINION’s core technology creates the new simplified platform and the simplicity creates the powerful E-CUBE 5. The E-CUBE 5’s simplified platform allows faster response time at every diagnostic step, remarkably reduces malfunctions and enhances the system’s durability. By decreasing its fan noise to 30% than the level of competitors, the E-CUBE 5 helps users to concentrate on their diagnosis even in noise-sensitive spaces, such as small rooms.

### Key Diagnostic Factors by Application

#### General Imaging
- Fully optimized convex transducer for abdominal exams
- Excellent 2D, Color flow and Doppler image quality

#### Women’s Health
- Enhanced image quality for fetus, uterus and breast
- Tissue Harmonic Imaging and DICOM structure reports

#### Musculoskeletal
- Superb linear transducer for MSK exams
- Great contrast resolution and color flow

### Transducer Portfolio

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<tr>
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</table>

### Main Features

- **Xpeed™**
- Auto IMT
- Panoramic Imaging
- SRI / FullSRI™ (Speckle Reduction Imaging)
- SCI (Spatial Compounding Imaging)
- FCI (Frequency Compounding Imaging)
- FTHI (Filtered Tissue Harmonic Imaging)

### Specification

- 15.6” LED monitor
- Tilt: 30°(up) / 90°(down)
- Weight: 50kg
- Height: 1,293 mm
- Width: 505 mm
- Depth: 659 mm
- 3 active transducer ports
- DICOM 3.0 Connectivity

### Born Powerful and Compact

- Triplex mode in Common Carotid Artery with Auto-trace PW
- Side by side display in dual mode
- PW Doppler of the uterine artery
- 22-week fetal brain
Having great mobility, the E-CUBE inno provides clinicians with image uniformity, deep penetration and durable design. The E-CUBE inno, applied ALPINION's acoustic technology and compact hardware technology, offers a rapid and accurate diagnosis with reliable performance - regardless of space limitations.

The E-CUBE inno’s fast & intuitive workflow, simple operation, fast boot-up time and durable system design support optimal diagnosis under any circumstances.

**Key Diagnostic Factors by Application**

- **Anesthesiology**
  - High-resolution linear image performance (L3-8i, L3-12i)
  - SCI(Spatial Compounding Imaging) for fine needle visualization
  - Minimal workflow and ease-of-use operation

- **Emergency Medicine**
  - Rapid boot-up time
  - Automatic feature, Xpeed™
    - one-button optimization function for B/C/Doppler mode
  - Compact echo tool and measurement package
  - Single crystal cardiac transducer (SP1-5i)

- **MSK / Sports medicine**
  - Superb linear image performance (L3-12i, L3-8i, L8-17i)
  - SCI(Spatial Compound Imaging) for fine needle visualization

**Transducer Portfolio**

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<th>Type</th>
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<td>L8-17i</td>
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<td>Phased</td>
<td>SP1-5i</td>
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**Main Features**

- SCI
- SRI
- Auto optimization for B/C/D mode
- PW/CW Doppler
- Full measurement and report package

**Specification**

- 15” LCD monitor
- Tilt : 165°
- Weight : 7.2kg
- Height : 83.5 mm
- Width : 410mm
- Depth : 371mm
- 1 active transducer port (High-density)
- 3 USB ports
- Moving cart, Carrier Bag (option)
Innovation Meets Portability. Indeed.

- **Excellent Imaging Quality**
  - Cart-based ultrasound system architecture
    With the powerful and qualified cart-based ultrasound system architecture, the E-CUBE i7 brings a new level of image clarity to compact ultrasound systems.

- **Crystal Signature™**: High class single crystal transducer technology
  ALPINION’s Crystal Signature™ transducers improve penetration in difficult-to-image patients and reduce clutter so clinicians can view fine structures in precise detail.

- **Hockey stick-shaped high-frequency linear transducer**
  The IO8-17T providing extreme high frequency images is the ideal choice for rheumatology practices. It improves joint aspiration and injection accuracy and offers excellent resolution in the extreme near field, while the shape enables the user to easily maneuver the device into tight spots without losing grip.

- **Optimal Imaging Suite™**
  Optimal Imaging Suite™, ALPINION’s integrated image post processing software set, provides better border definition and increased contrast resolution by reducing artifacts while maintaining true tissue appearance.

- **High-performance with Clinical Versatility**
  - Imaging software technologies and transducers for an extensive range of applications
    
    | Software | Transducer |
    |----------|------------|
    | Needle Vision™ / Needle Vision™ Plus | Convex (C5-8NT, C1-6T) |
    | Speed™ | Linear (IO8-17T, L3-12T) |
    | Auto IMT | Phased (SP3-ST, SP3-8T) |
    | TDI | Endocavity (EC3-10T, EH3-10T) |

- **Optimal Clinical Environments**
  - Sliding Keyboard Cover
    The E-CUBE i7’s unique sliding keyboard cover and ergonomically located keyboard provide better support for the user’s arms and wrists when typing. In addition to these benefits, the new cover design also prevents the keyboard from being contaminated by dust, gel, fluid, and blood.

- **For Point of Care (POC) environment**
  - 1-hour battery life
  - Lightweight system (7.2kg with battery & transducers)
  - Compact laptop style with a carrying case
  - Fast boot-up with integrated SSD (less than 45 seconds)
  - Silent fan
APPLIcation Specific Transducers

From acoustic to therapeutic.
ALPINION, We are Ultrasound Professionals

Acoustic Technology
ALPINION's proprietary acoustic technologies range from diagnostic transducers developed for application-directed scanning to therapeutic transducers specialized for HIFU treatments.

Diagnostic Ultrasound
Ultrasound research starts with raw RF data and the ability to manipulate it. ALPINION’s advanced technologies, such as software beamforming, full raw RF data acquisition, and sequence programming, provide a new research platform to help ultrasound technology development and break various limitations on ultrasound diagnosti.

Therapeutic Ultrasound
HIFU (High-Intensity Focused Ultrasound) is a highly precise and proven medical procedure in the non-invasive ablation of tumors.

In-house Developed & Manufactured Transducers
- Fast Repair
- Best Compatibility
- Low Maintenance Cost
- Reliable Quality Management

Research Ultrasound
Ultrasound imaging is a valuable non-invasive diagnostic tool providing real-time, dynamic images of internal tissues. ALPINION’s advanced technologies, such as broad beamforming, full raw RF data acquisition, and sequence programming, provide a new research platform to help ultrasound technology development and break various limitations on ultrasound diagnosti.

Therapeutic Ultrasound
HIFU (High-Intensity Focused Ultrasound) is a highly precise and proven medical procedure in the non-invasive ablation of tumors.