



VITAL MATERIALS CO. , LIMITED

Floor 49, International Metropolitan Plaza,
No.68 Huacheng Avenue, Tianhe District,
Guangzhou, Guangdong China 510623
Tel: (+86) 020-37069188 Fax: (+86) 020-37069180

Sales@VitalChemUSA.com(USA)
Sales@vitalchem.com (Other countries)
<https://en.vitalchem.com/>

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MATERIALS TECHNOLOGY COMPANY

VITAL MATERIALS CO. , LIMITED

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Empower the World with Photonics for a Better Life

Respect Collaboration Dedication Innovation

COMPANY PROFILE

Founded in 1995, Vital Materials is a high-tech enterprise and a global leader in R & D, production, sales, and recycling of rare metals and high-tech materials, devices, modules, and systems. It has established the China National Rare Metals Engineering Research Center, China National Enterprise Technology Center, Post-Doctoral R & D Center, and Vital Technology Group Central Research Institute.



Core Competence

Vital Materials is the world's leading producer of rare metals as well as the first Chinese manufacturer to deliver G11 rotary ITO targets. Vital is also one of the world's leading suppliers of infrared materials, a key supplier of compound semiconductor substrates, and a strategic partner of the global PV enterprise, continuing to provide industry-leading integrated solutions to global customers.



Global Networks: 54



Countries: 20



Employees: 15,000+

Vital Materials implements a unique vertical integration strategy. We are dedicated to developing advanced materials and technologies for fast growing, high-tech companies in the semiconductors, microelectronics, artificial intelligence, 5G, optical communications, low-altitude economy, quantum technology, new energy, new-type displays, healthcare, automotive electronics, aerospace, consumer electronics, precision optics, and other industries.

Vital Materials' first class technical R&D platform continuously expands our portfolio of products and recycling services as a valued solution provider for our customers. Our ongoing development of clean technologies reflects our position as a leader in environmental responsibility. Both of these initiatives enable us to grow and evolve sustainably as a responsible materials technology firm.

COMPANY HISTORY

- The Beginning of Vital Materials
- Established Vital Materials Co., Ltd.
- Established High-tech Material Base

1995-2010



- Established Yunlong Industrial Park (Comprehensive Processing of Rare Metals)
- Established Vital Advanced Materials Co., Ltd.
- Acquisition of Environmental Pigment Business From Cappelle Pigments (Tianjin) Ltd.
- JV With Umicore to Build ITO Plant in Qingyuan
- Bought Out Umicore's Share in ITO Plant

2011-2017



- Established CS Microelectronic Co., Ltd.
- Acquisition of Magnetic Storage Business from Heraeus Singapore Facilities
- Acquisition of Comprehensive Recycling Business of Rare Metals from Hunan Chengyuan Non-ferrous Metal Co., Ltd.
- Acquisition of Bismuth Chemical Production Business from Orrion Chemicals Bischem, S. L.
- Acquisition of MO Sources Business From Lanxess

2018-2019



- Acquisition of Vacuum Coating Equipment Business From FHR Anlagenbau GmbH
- Acquisition of Ceramic Target Business From Samsung Corning Advanced Glass, LLC.
- Acquisition of Processing and Recycling Business of Various Complex Materials From PPM Pure Metals GmbH
- Established Dongguan Vital-Pioneer Technology Co., Ltd.
- Established Jiangsu Vital Micro-electronics Technology Co., Ltd.

2020-2021



- Series A, B and C founding rounds being finished by Vital Electronic Technology (formerly Vital Thin Film)
- In-Production Bases (Leiyang, Quzhou, Xuzhou)
- Acquisition of Recycling and Refinery Business From 5N PLUS INC.
- Establishment of Vital & FHR North America LLC.
- Acquisition of Jiangsu Yangzi Catalyst Co., Ltd.
- Acquisition of AllTech Medical Systems, LLC.
- Established Vital Sofine Semiconductor Co., Ltd.

2022-2024

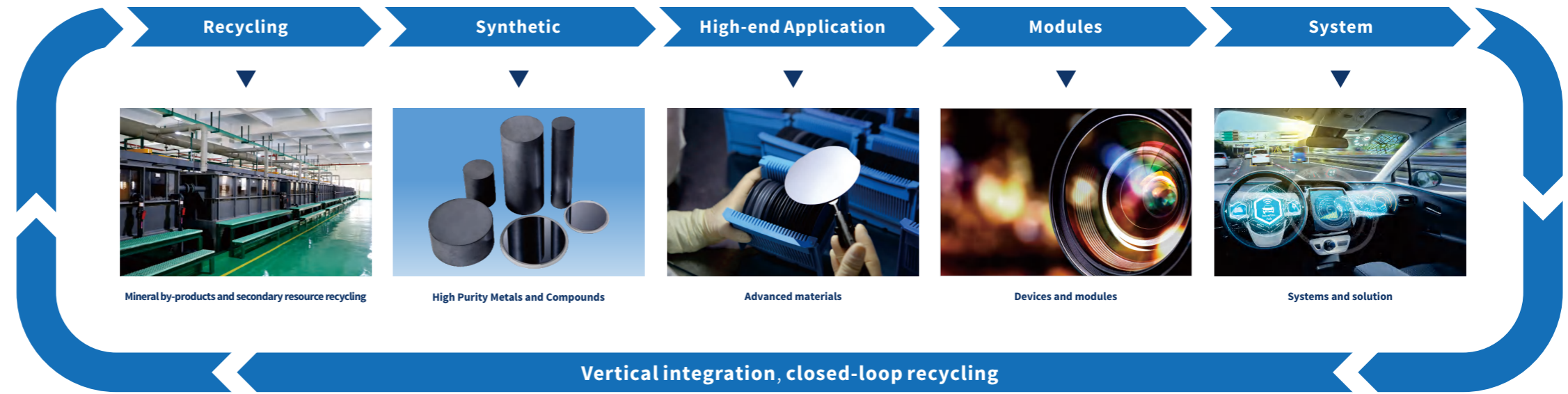


- Being the holding company of Wanye Enterprises Co., Ltd. (now renamed Vital Deeptech)
- Acquisition of Wufeng Scientific Instrument Co., Ltd. by Vital Deeptech
- Acquisition of Being Nano-Instruments Co., Ltd. by Vital Deeptech
- Established Anhui Vital PoleStar Xtreme Hemt Technology Co., Ltd.
- In-Production Bases (Jinzhou, Dezhou)
- Bases Under Construction (Guangzhou, Foshan, Quzhou, Huaibei, etc.)

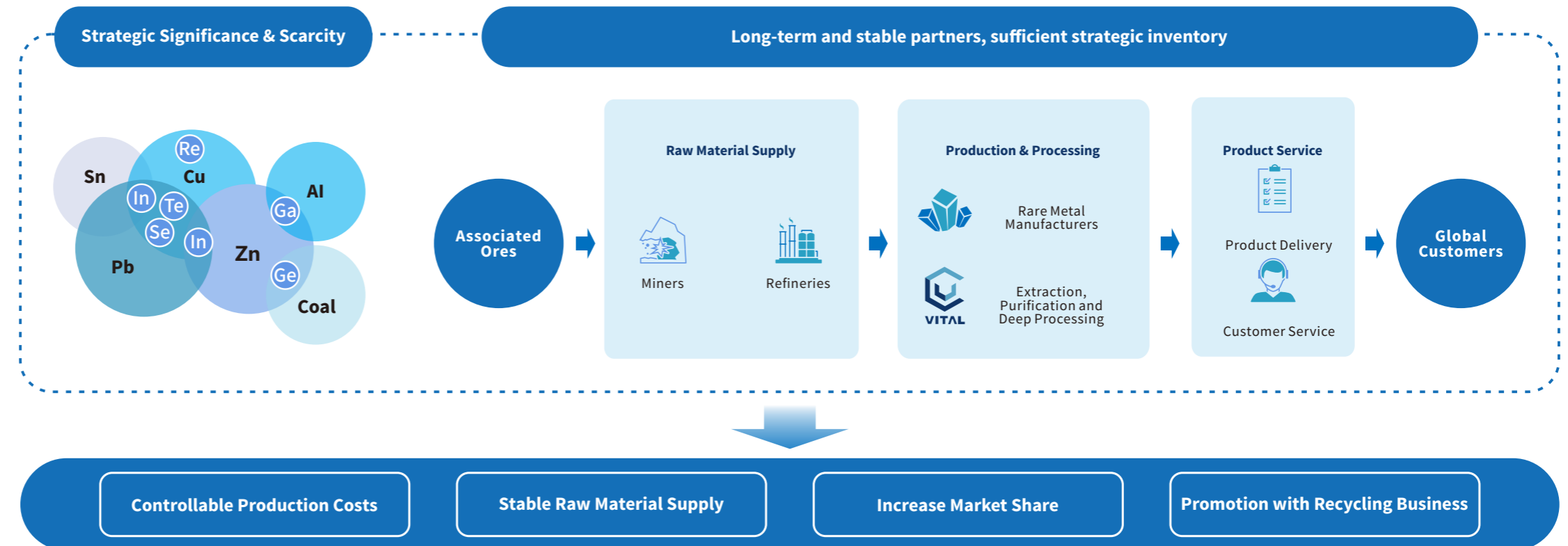
2025-2026



INDUSTRIAL CHAIN



SUPPLY CHAIN



• Vital Materials possesses a unique global "Mobile Mine" of rare metals.

• With material advantages and global presence, Vital Materials has built a stable industrial chain system, maintaining long-term cooperative relationships with almost all miners, refineries and rare metal producers.

COMPANY VISION

VITAL

VITAL

07



To Be a Global Leader in
Photonics Innovation

COMPANY STRATEGY

- Global Presence
- Vertical Integration
- Specialize in Rare Metals, Providing Comprehensive Solutions
- Be the Preferred Recycling Partner
- Focus on High-Tech Industries Including Semiconductor, Healthcare, Scientific Instruments, PV, LED, Infrared, Laser, 5G, Optical Communication, Display, Microelectronics, and Much More

CERTIFICATES



VITAL

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ELECTRONIC TECHNOLOGY BUSINESS UNIT

Electronic Technology Business Unit devotes to R&D, producing, sales, and recycling of sputtering targets and evaporation materials for physical vapor deposition (PVD), as well as vacuum coating equipment. Depending on the materials, a wide variety of products in different forms and shapes are available. Our materials products include high-purity metals, alloys, precious metals, and ceramic materials, are widely used in the new-type displays, photovoltaics, semiconductors, automotive electronics, precision optics, data storage, glass, and other industries. We also have R & D and manufacturing bases in China, South Korea, the United States, Germany, and Singapore.

Product & Application Sputter Targets

Sputter Targets are mainly used in Vacuum Coating Equipment to coat thin films by Physical Vapor Deposition (PVD) on a substrate to add new functions or create micro-electronic connections and functions as Thin Film Transistors (TFT).

PV Targets

ITO	V TTO	V TZO	CdTe
CIGS	CZT	Cu	NiO

Semiconductor Targets

AlCu	Al	Ti	Ta	Cu	CuAl
CuMn	NiPt	Ni	Co	TiAl	W
WSi	WTi	Al ₂ O ₃	NiV	Ag	Ru

*IC Targets

AlSc	PZT	LNO	V	ZrVFe	GeSbTe
Mo	Nb	Ge	Si	Ru	Au
Pt	Cr				

*MEMS Targets

Display Targets

ITO	IGZO	IZO	P-ITO	Cu
Al	Ti	Mo	Ag	

Evaporation Materials

SrAlOx	Ti ₃ O ₅	Ta ₂ O ₅	YbF ₃	LiF
Yb	Mg	Ti	Ni	Au
Ag	ITO	ICO	IZO	IWO

Evaporation Materials

We provide a wide range of high-quality evaporation materials offering the best solution for any individual application. High-purity, optimized melting properties as well as low spitting during pre-melt and processing allows coating complex layer stacks with low defects and high yield.

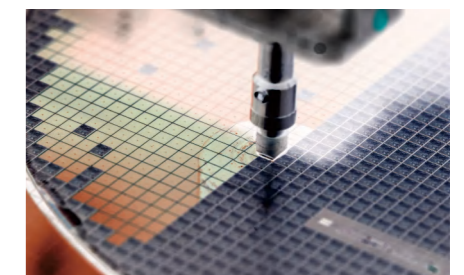
Our products range includes precious metals, high-purity metals, metal alloys, fluorides, oxides and sulphides in a wide variety of shapes and geometries of granules, tablets, shots or disks.



Vacuum Coating Equipment

We are committed to building an integrated technology platform for next-generation thin-film applications, covering thin-film materials development, vacuum process equipment, sputtering target manufacturing, and end-to-end technical services. With a strong focus on both perovskite single-junction and tandem solar cells, we provide comprehensive solutions spanning materials design, equipment engineering, process integration, and recycling technologies.

Our core business includes the design and manufacturing of advanced thin-film deposition equipment, as well as value-added services such as thin-film coating demo, layer stack engineering, and scale-up process development. These capabilities enable our customers to accelerate the transition from R&D to high-volume manufacturing. Our solutions are widely applied across thin-film photovoltaics (including perovskite single-junction and tandem), advanced displays, automotive electronics, MEMS sensors, optics, RF filters (BAW/SAW), and decorative coatings.



Customer Service

We provide you with pre-sales and after-sales process debugging and technical support, metal whole industry chain closed-loop service, target material utilization solutions, solar cell conversion efficiency improvement solutions, and professional vacuum chamber components cleaning and scrap recycling services.

OPTO-ELECTRONICS TECHNOLOGY BUSINESS UNIT

Infrared Modules

We supply a diverse range of cooled and uncooled infrared detectors. With our established 8-inch silicon-based MEMS infrared detector chip production line and mid-wave MCT, InSb, and long-wave T2SL infrared cooled detector chip production line, we have the expertise in MEMS chip design and manufacturing processes, as well as metal, ceramic, and wafer-level packaging technologies.

We offer a wide range of compact, high-sensitivity, ultra-low power consumption infrared thermal modules with various interfaces, including mainstream resolutions such as 320x256, 384x288, and 640x512. We also provide a variety of thermal modules specifically designed for robot, drone industries.



Cooled Infrared Detector	Uncooled Infrared Detector
Cooled Infrared Camera Core	Uncooled Infrared Camera Core



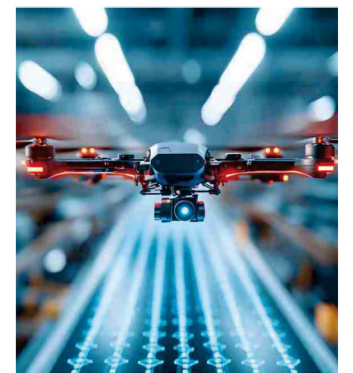
Thermal Infrared Systems

We provide comprehensive solutions for end-users, integrating infrared thermal imaging components, control systems, display systems, storage systems, and pan-tilt systems. Our solutions cover OEM, ODM, and complete system delivery. We have developed a range of products for various industries, including outdoor applications, security, industrial temperature measurement, airborne pods, and gas detection.



Laser Optical Components & Systems

We focus on R&D and production of various laser optical components, as well as laser modules and systems, which include various types of semiconductor lasers, solid-state lasers and fiber lasers, such as miniaturized laser modules, fiber-coupled lasers, pulsed lasers, picosecond lasers, femtosecond lasers, etc. Our products are applied in metal material processing, hard and brittle material processing such as diamond and silicon carbide, and laser medicine.



Product & Application

Infrared Materials

As China's leading supplier of infrared materials, we are one of the few global suppliers capable of producing and supplying zinc selenide (ZnSe) materials in bulk. Our Ultra-high purity germanium can reach a purity of 13N.

Ge	ZnSe	ZnS	Chalcogenide glass		
GaAs	GaSb	InSb	Si	MgF ₂	CaF ₂

Infrared Lenses

With over 200 innovative infrared lens designs and developments, we offer a comprehensive range of optical lenses for the infrared field, and customized R&D production services.

Athermalized Lens Assemblies	Electric Focus Lens Assemblies
Manual Focus Lens Assemblies	Continuous Zoom Lens Assemblies

*Full range Optional focal length

Opto-electronics Technology Business Unit is dedicated to the R&D, production, and sales of infrared materials, lenses, detectors, modules for infrared thermal imagers, infrared systems, laser devices and systems. With our comprehensive capabilities spanning "material growth, chip design, device fabrication, and system integration," We deliver high-quality optoelectronic products and solutions. Our products are widely used in medical health, aerospace, low-altitude economy, automotive electronics, energy and metallurgy, new energy, public welfare, security and prevention, industrial manufacturing, intelligent buildings, and other industries.



SEMICONDUCTOR TECHNOLOGY BUSINESS UNIT

Semiconductor Technology Business Unit focuses on the research, development, production, and sales of III-V compound semiconductor materials, epitaxial wafers, chips, modules, and semiconductor components. Our products are widely used in various fields, including LED, Mini/Micro LED, 3D sensing, facial recognition, autonomous driving, AR/VR, 5G, optical communication, photovoltaics, quantum information technology, aerospace, semiconductor manufacturing.

Product & Application

High Purity Materials

High-purity materials have the characteristics of high purity, excellent performance, and wide applications, and are of significant importance in the fields of electronics, semiconductors, photovoltaics, chemistry, medicine, aerospace, etc. These high-purity materials can be used in advanced technologies such as crystal growth, Chemical Vapor Deposition (CVD) processes, Physical Vapor Deposition (PVD) processes, and Molecular Beam Epitaxy (MBE) technology, etc.

High Purity Metals

Sb	As	Ga	Cu	In	P
Se	Te	Zn	Al	B	Be
Bi	Cd	Ge	Pb	S	Sn

MBE Sources

Al	B	Be	Sb	As	Ga
In	P	S	Te	Sn	Zn

MO Sources

TMA	TMG	TEG
TMI	CP ₂ Mg	GaCl ₃

Electronic Gases

AsH ₃	PH ₃	GeH ₄	H ₂ Se
B ₂ H ₆	SiH ₄	Nf ₃	BCl ₃

(PBN)

High-purity (>99.995%) ceramic crucible

Precursors

MoO ₂ Cl ₂	HfCl ₄	BDEAS
TEMAH	TEMAZ	TEOS

Substrates And EPI

VITAL utilizes advanced high-precision wire cutting equipment and high-flatness grinding and polishing equipment to provide epitaxial manufacturers with high-quality EPI-Ready substrates through processes such as CMP polishing, cleaning, and packaging. These products have extensive applications in the fields of photoelectronic devices, RF devices, and power devices.

GaAs 2"-8"	InP 2"-6"	Ge 2"-8"	Sapphire 2"-8"
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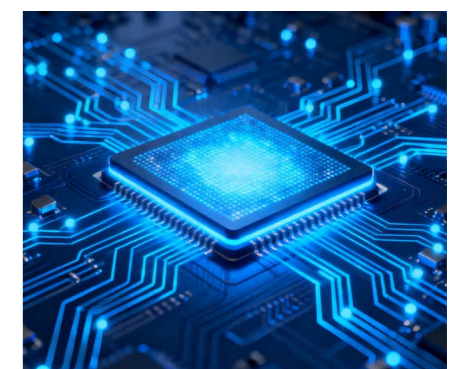
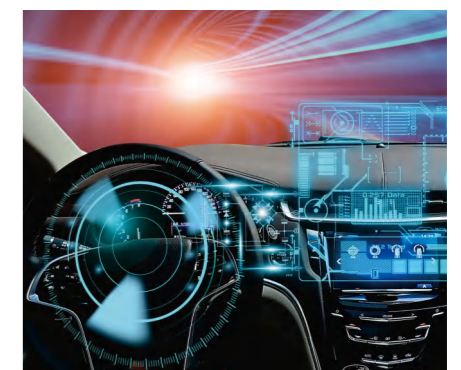
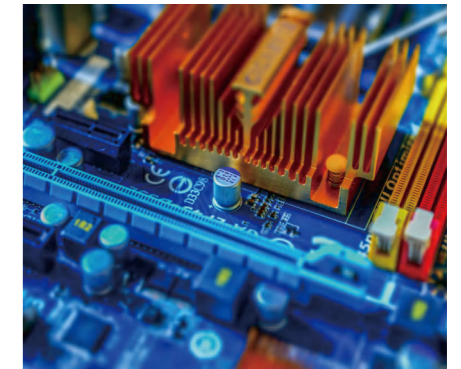
Laser/PD Chips And Modules

VITAL offers laser light sources and detectors epitaxy, chips, and packaged modules in the 590nm-2.6μm wavelength range. We offer end-to-end customized OEM services that cover the entire process, starting from single crystal substrates to epitaxial growth, chip fabrication, testing, and reliability characterization. Our services are tailored to meet the specific requirements of our customers, encompassing epitaxy structure, chip design, and performance specifications for various industries and applications.

590nm/620nm/660nm/680nm/76Xnm/795nm/808nm/850nm/905nm /915nm/940nm/980nm/1060nm GaAs based Laser/MicroLED
1310nm/1550nm InP based Laser
1310nm/1550nm/1654nm/0.4-1.7μm/0.9-1.7μm/0.9-2.6μm InP based PIN/APD/SPAD

Semiconductor Components

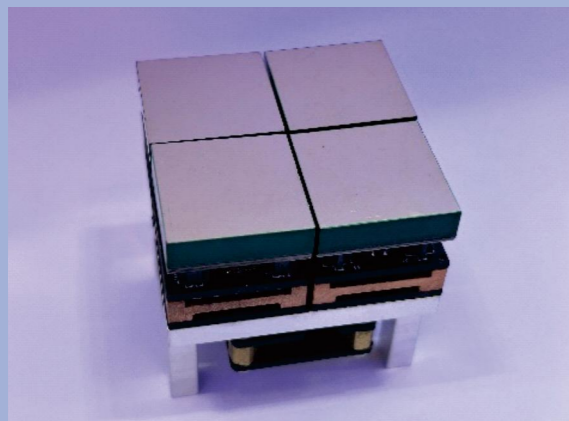
We design and manufacture key components for semiconductor equipment, including showerheads, heaters, chambers, ESC, silicon carbide components, specialty ceramics, RF power supplies, vacuum pumps & valves, bellows, EPD-OES spectrometers, non-contact radiation pyrometers, and integrated solutions for gas delivery systems.



MEDICAL TECHNOLOGY BUSINESS UNIT



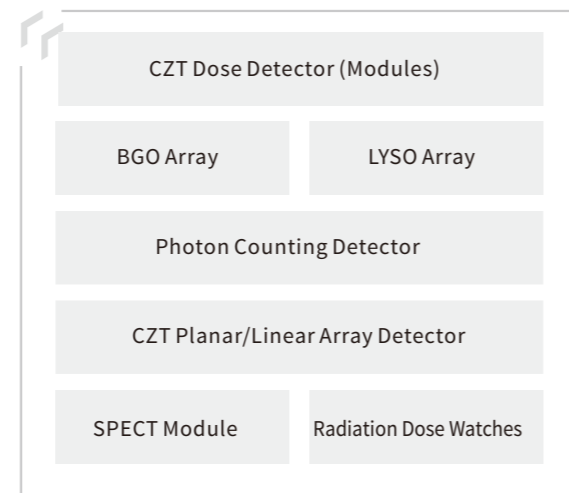
Medical Technology Business Unit is dedicated to the field of medical imaging, leveraging AI technology to create a full-industry chain from raw materials, components, system components, to medical equipment. Our products are widely used in medical imaging, clinical diagnosis, medical researches.



Product & Application

Medical Imaging Components

We have complete in-house production capabilities for medical imaging components, including the growth of CZT, BGO, and LYSO crystal materials, as well as detector modules for PCCT, PET, and SPECT.

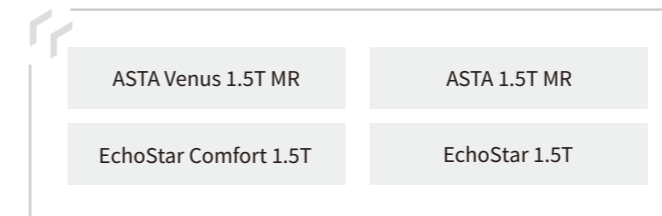


Medical Imaging Equipment



• MR

In addition to conventional medical MRI, we also offer high-end customized magnets, coils, and MRI magnetic resonance imaging systems to meet your needs.

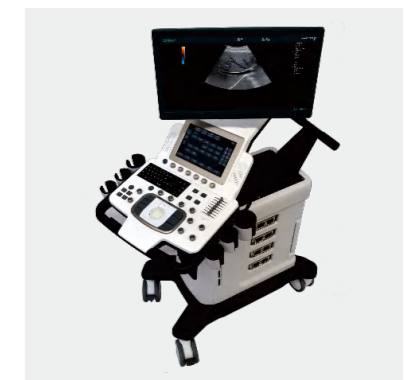


• XR

RadGlory 361 C-arm Dub

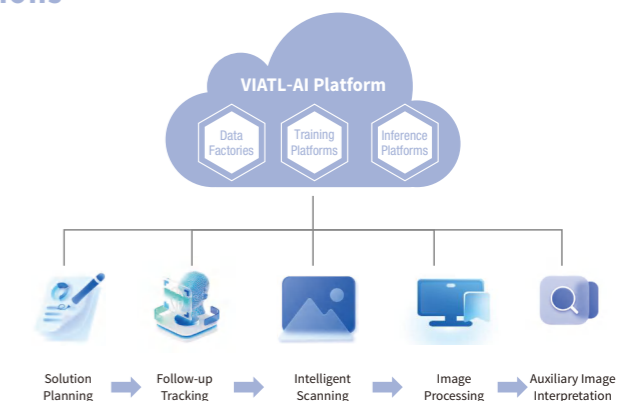
• US

The A8 | A8S | A8Exp series color Doppler ultrasound systems provide reliable and accurate support for clinical diagnosis.



AI-powered Medical Imaging Intelligent Solutions

The VITAL-AI platform integrates data factories, training platforms, and inference platforms to provide powerful and easy-to-use services for the entire process, including solution planning, follow-up tracking, intelligent scanning, image processing, and auxiliary image interpretation, to help medical imaging achieve intelligent upgrades.



MATERIALS TECHNOLOGY BUSINESS UNIT

Materials Technology Business Unit supplies rare metals, alloys, noble metal catalysts and compounds and provides closed-loop metal recovery and recycling services for global customers. Our products are widely used in pharmaceuticals, electronic components, nuclear reactors, photovoltaics, new energy batteries, metallurgy, petroleum refining, green recycling, pigments, coatings, agriculture, and other industries.

Products and Services

Recycling

- Process and recycle a wide range of complex materials including hazardous materials
- Sales and recycling solutions to customers worldwide

Catalysts

- Great-performing platinum-group metals (PGMs) catalyst
- Adapting for hydrogenation, reforming, isomerization, dehydrogenation, deoxidation, denitrification, desulfurization, dearsenification and other processes
- Reduction, regeneration and recycling of non-metallic catalysts and noble metal catalysts



Chemical Products

Our chemicals business is mainly engaged in high-purity rare metals (Se, Te, Bi, In, Ga, Ge, Cd, Co, precious metals, and other metals), alloys, noble metal catalysts and compound products. The special chemicals include low melting point alloys, Se/Co/Zn-containing feed additives, bismuth APIs, and environment-friendly pigments, which are widely used in agriculture (feed additives), pharmaceuticals, plastics, coatings, batteries, solder, petrochemicals and other high-tech and strategic emerging industries, and provide reduction, regeneration and recycling of catalysts.



Recycling Service

Materials Technology Business Unit uses advanced pyrometallurgical and hydrometallurgical processes, including side-blowing furnace technology, vacuum distillation technology, and advanced processes such as solvent extraction, ion exchange, and electrolysis to recover and refine a wide variety of rare-metal-containing solids, slurries, and solutions.

We are licensed to operate hazardous waste such as selenium-containing, tellurium-containing, and non-ferrous metal smelting waste. We can assist the upstream smelting enterprises in recycling rare-metal and precious-metal containing materials. We also assist the downstream material/device enterprises in recycling a variety of rare metals and precious metals from scraps, other secondary resources, and end-of-life devices. Vital Materials recycles almost any type of rare metal containing waste.



SCIENTIFIC INSTRUMENTS BUSINESS UNIT



Atomic Force Microscopy

Leveraging over 30 years of technological expertise and achievements from National Key R&D Programs, our Atomic Force Microscope (AFM) features proprietary core technologies and complete intellectual property rights. Integrating more than 10 techniques including AFM, LFM, and STM, the instrument enables in-situ, high-precision detection and characterization of diverse samples—from wafers to cells—meeting the multidimensional nanometric characterization demands of frontier materials research and production.



Desktop Ellipsometer

Based on high-precision ellipsometry, the desktop system supports substrates such as Si, GaAs, InP, Ge, and glass. Capable of measuring thickness and refractive index for single/multi-layer films, our desktop ellipsometer flexibly adapts to diverse processes in semiconductor, display, optoelectronic, photovoltaic and so forth.



Chromatography Instruments

Backed by nearly three decades of technical expertise and complete independent IP, our chromatography portfolio spans UHPLC/HPLC, GC, gel permeation chromatograph (GPC), triple quadrupole LC-MS/MS and single quadrupole GC-MS, along with key components and consumables. Offering flexible configuration and exceptional versatility, our instruments meet diverse separation and detection needs in semiconductors, biopharma, and environmental protection.



Mass Spectrometry Instruments

We offer complete instruments and supporting consumables-ICP-MS and residual gas analyzer (RGA) – delivering high-precision, high-stability solutions for ultra-trace elemental analysis, vacuum system cleanliness, and overall process stability and quality control in the semiconductor industry.



Product & Application

Laboratory Analytic Instruments

We offer laboratory analytical instrumentation including mass spectrometer, chromatography instrument, spectroscopy, and atomic force microscopy. Focusing on localization initiatives and differentiated market positioning through systems and critical components/modules, our products are widely applied in semiconductors, academia, government, and third-party testing labs for qualitative and quantitative analysis.

Inspection & Metrology Instruments

Our desktop metrology instruments, including ellipsometers and wafer curvature analyzers, enable in-line critical parameter measurement of 4-12" wafers - film thickness, refractive index, and warpage - empowering semiconductor fabs to rapidly detect process deviations, refine manufacturing workflows, and improve yield.

Scientific Instrument Business Unit specializes in high-end scientific instruments including mass spectrometer, chromatography instrument, spectroscopy, and atomic force microscopy. Mastering core technologies from key components and software algorithms to system integration, we have built a comprehensive capability matrix spanning core parts, complete instruments and application development, delivering robust scientific instrument support for cutting-edge scientific research and advanced manufacturing.



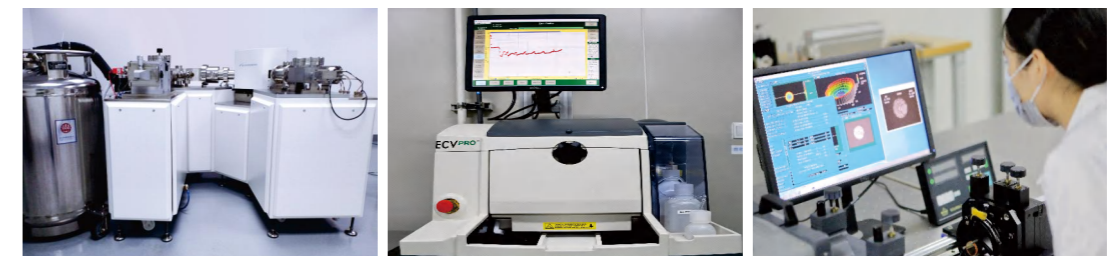
R&D CAPABILITIES

HIGH PURITY TECHNOLOGIES	<ul style="list-style-type: none"> • High purity metal purification • High purity electronic gas purification • High purity reagent purification • High purity compound synthesis
CRYSTAL TECHNOLOGIES	<ul style="list-style-type: none"> • High purity polycrystalline material synthesis • Crystal growth • Crystal processing • Crystal application research • Crystal growth equipment design
TARGET MATERIAL TECHNOLOGIES	<ul style="list-style-type: none"> • Powder synthesis • Ultrafine powder processing and granulation • Target molding • Target sintering • Metal target casting and heat treatment • Target bonding and testing
NANOTECHNOLOGIES	<ul style="list-style-type: none"> • Nano-material synthesis • Dispersion and morphology control • Surface treatment • Application research
CHIP TECHNOLOGIES	<ul style="list-style-type: none"> • Epitaxial growth technology • Chip processing technology
OPTICAL TECHNOLOGIES	<ul style="list-style-type: none"> • CNC technology • Optical coating technology • Low noise, high frequency, and large area array readout circuit design • High-yield, large TCR, and low-stress MEMS structure design and processing

Vital Materials pursues continuous improvement of its technology and develops new material solutions and products. We take great pride in our resources.



Vital Technology Central Research Institute, focusing on research and development in high-end materials, equipment manufacturing, microelectronics, optoelectronics, and renewable energy, contributes to VITAL group's high-quality productivity and development in optoelectronics, photovoltaics, healthcare, chemicals, advanced materials, new energy, and semiconductors.



GLOBAL PRESENCE



Advanced Materials Plant
(Qingyuan Industrial Park)



CS Microelectronics Co., Ltd.
(Gaofeng Park)



AllTech Medical Systems, LLC.



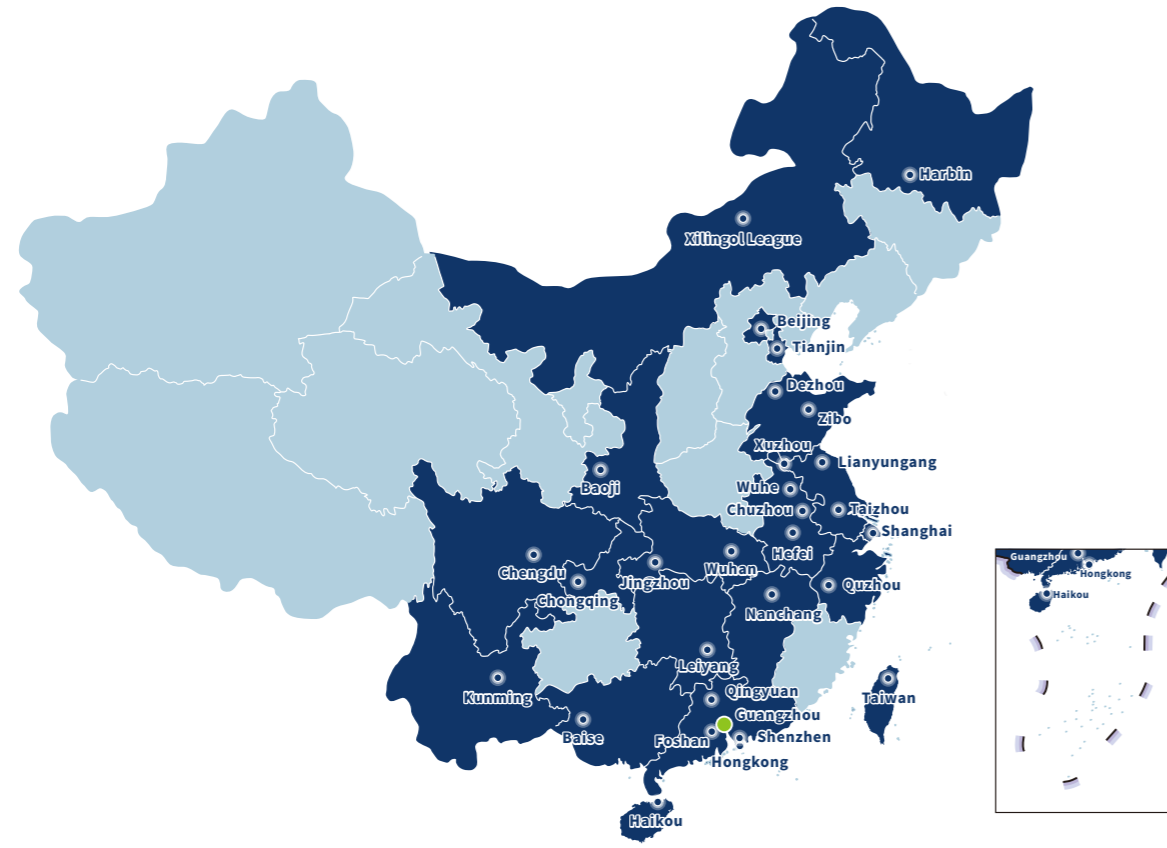
KV Materials Co., Ltd.



FHR Anlagenbau GmbH



Vital Chemicals USA, LLC.



Head Office

Vital Materials Co., Limited

Add: Floor 49, International Metropolitan Plaza, No.68 Huacheng Avenue,
Tianhe District, Guangzhou, Guangdong, China 510623
Tel: (+86)20-37069188 Fax: (+86)20-37069180 Sales@vitalchem.com

Industrial Bases

Advanced Materials Production Plant (Qingyuan, Guangdong / Jingzhou, Hubei / Tianjin / Leiyang, Hunan)

Vital Thin Film Materials Production Plant (Qingyuan, Guangdong / Hefei, Anhui / Zibo, Shandong / Xuzhou, Jiangsu / Kunming, Yunnan / Quzhou, Zhejiang)

Infrared Optical Plant (Harbin, Heilongjiang / Chuzhou, Anhui)

Laser Industry Plant (Dezhou, Shandong / Lianyungang, Jiangsu)

Chip Manufacturing Plant (Chongqing / Wuhan, Hubei / Zibo, Shandong / Chuzhou, Anhui / Quzhou, Zhejiang)

High-end Equipment and Scientific Instrument Plant (Shanghai / Xuzhou, Jiangsu / Qingyuan, Guangdong / Guangzhou, Guangdong / Quzhou, Zhejiang)

MedTech Equipment Manufacturing Plant (Chengdu, Sichuan / Quzhou, Zhejiang)

Major Facilities

VITAL (Shanghai) New Technology Research Co., Ltd.
Sales@vitalchem.com

Shanghai Vital DeepTech Co., Ltd.
Sales@vitalchem.com

Guangdong Vital Oricraft Precision Technology Co., Ltd.
Sales@vitalchem.com

Vital Laser Solution Co., Ltd.
Sales@vitalaser.cn

Beijing Zhongchen Xinguang Technology Co., Ltd.
Sales@vitalchem.com

Hainan Vital Optoelectronic Technology Co., Ltd.
Sales@vitalchem.com

AllTech Medical Systems, LLC.
Sales@alltechmed.com

CS Microelectronics Co., Ltd.
csm_sales@vitalchem.com

Vital Sofine Semiconductor Co., Ltd.
Sofine@vitalchem.com

Jiangsu Yangzi Catalyst Co., Ltd.
yzchj.jiangsu@vitalchem.com

Wuhan Hiphoton Optoelectronic Technology Co., Ltd.
qi.li@vitalchem.com

Anhui Vital PoleStar Xtreme Hemt Technology Co., Ltd.
Sales@vitalchem.com

Chinese Hong Kong Representative Office
Sean.fuller@vitalchem.com Sales@vitalchem.com

Chinese Taiwan Representative Office
Shufen.Xu@vitalchem.com Sales@vitalchem.com

Overseas Offices and Subsidiaries

US Subsidiary
Vital Chemicals USA, LLC.
Vital & FHR North America LLC.
Sales@VitalChemUSA.com

Brazil Subsidiary
Vital Materials Importacao E Comercio
De Produtos Quimicos LTD
Michiel.Vandervoort@vitalchemusa.com
Sales@VitalChemUSA.com

Germany Subsidiary
FHR Anlagenbau GmbH
Sales@fhr.de
Vital Pure Metal Solutions GmbH
Info@vital-pms.de

Vital Thin Film Materials GmbH
Sales@vitaltfm.com

Belgian Subsidiary
Vital Materials Europe BVBA
Vital Materials Belgium SA
Sales@vitalchem.com

UK Representative Office
Nick.boulton@vitalchem.com

Spain Subsidiary
OCB Pharmaceutical, S.R.L
Info@ocb-pharmaceutical.com

Malaysia Plant
Sales@vitalchem.com

Singapore Plant
Sales@vitaltfm.com

Philippines Representative Office
Vangie.Domingo@vitalchem.com
Sales@vitalchem.com

Japan Representative Office
Ken.Mori@vitalchem.com
Sales@vitalchem.com

Korean Subsidiary
KE Materials LLC.
Jangwon.Kim@vitalchem.com
Sales@vitalchem.com

KV Materials Co., Ltd.
Jhkim8010@vitalchem.com

Sales & Marketing Office
iris.chen@vitalchem.com

