VITAL

MATERIALS TECHNOLOGY COMPANY

VITAL MATERIALS CO., LIMITED

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Innovative Material Technology for a Better Future

Respect Collaboration Dedication Innovation

CONTENTS

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 hi-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 Advanced Materials R & D Center.

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.

46

Global Networks: 46

16

Countries: 16

6000+

Employees: 6,000+

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 semiconductor, microelectronics, 5G, optical communication, photovoltaics, LED, infrared optics, display, radiation detectors, pharmaceutical, animal nutrition, 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

1995
- The beginning of Vital Materials

2003
- Established Vital Materials Co., Ltd.

2010
- Established High-tech Material Base

2012
- Established Yunlong Industrial Park (Comprehensive Processing of Rare Metals)
- Established Vital Advanced Materials Co., Ltd.

2013
- Acquisition of Environmental Pigment Business from Cappelle Pigments (Tianjin) Ltd.

2014
- JV with Umicore to Build ITO Plant in Qingyuan

2017
- Bought Out Umicore's Share in ITO Plant

2018
- Established CS Microelectronic Co., Ltd.
- Acquisition of Magnetic Storage Business from Heraeus Singapore Facilities
- Acquisition of Comprehensive Recycling Business of Rare Matals 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

2019
- Acquisition of Vacuum Coating Equipment Business from FHR Anlagenbau GmbH
- Acquisition of Ceramic Target Business from Samsung Corning Advanced Glass, LLC

2020
- 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.

2021
- Series A and B founding rounds being finished by Vital Thin Film Materials Co., Ltd.
- Hunan Vital New Material Technology Co., Ltd. officially being in production
- Acquisition of Recycling and Refinery Business from 5N PLUS INC.
- Establishment of Vital & FHR North America LLC
- Under Construction (Kunming, Guangzhou, Zibo)

2022

INDUSTRIAL CHAIN

Recycling → Synthetic → High-end Application → Modules → System

Mineral by-products and secondary resource recycling

Functional materials

Advanced materials

Devices and modules

Systems and solution

Vertical integration, closed-loop recycling

COMPANY VISION

Be the Global Leader in Materials and Technologies

COMPANY STRATEGY

- Global Presence
- Vertical Integration
- Focus on Rare Metals
- Be the Preferred Recycling Partner
- Develop Innovative Solutions for Applications Involving Rare Metals
- Focus on High Growth, High Tech Industries Including PV, LED, Infrared, Laser, 5G, Optical Communication, Display, Microelectronics, and much more

CERTIFICATES

- ISO 9001 Quality Management Systems
- ISO 14001 Environmental Management Systems
- ISO 22000 Food Safety Management Systems
- ISO 45001 Occupational Health and Safety Management Systems
- FAMI-QS Quality and Feed Safety Management System
- Kosher Certification
- IATF16949 Automobile Quality Management Systems

THIN FILM TECHNOLOGY
BUSINESS UNIT

The Thin Film Technology Business Unit devotes to R & D, producing, sales, and recycling of sputtering targets and evaporation materials for physical vapor deposition (PVD). Depending on the materials, a wide variety of products in different forms and shapes are available. Our products are widely used in the display, photovoltaic, semiconductor, precision optics, data storage, glass, and other industries.

KV MATERIALS ("KVM") as part of Vital Thin Film Technology business unit, is committed to developing and manufacturing high-performance ceramic materials for emerging technologies, providing customers with higher quality ITO, IZO, IGZO and other high mobility oxide ceramic target products, as well as more advanced supporting technology solutions.

Product & Application

Target and Evaporation Materials

Sputtering targets and evaporating materials can be used in advanced nano-film process technologies such as physical vapor deposition (PVD) and molecular beam epitaxy (MBE). Our products include ceramic, metal, and alloy targets, evaporative materials, etc., and are widely used in semiconductors, displays, solar cells, and other emerging industries. Customized products are also available.

Ceramic Targets

ITO	IGZO	CdTe	CIGS	CdS	In_2S_3
In_2Se_3	CdSe	ZnTe	CdZnTe	NbOx	

Metal Targets

Al	Cu	Cr	Ge	In	Mo
Ni	Ti	V	Nb	Si	Sn
Ta	AlSc	CuGa	BeCu	CIG	GeSbTe
WTi	SiAl	NiPt	CoTaZr	CrCo	InSn
ZrY	C-GST	Ag	Au	Pt	Ru

FHR–A subsidiary of VTFM

FHR is committed to the research and development of thin film technology, vacuum-process equipment, sputtering-target manufacturing and related services including job coating and layer stack development. Its primary business is design and assembly of thin film deposition equipment that is widely used by internationally renowned customers e.g. for thin film solar cells, displays, in automotive, MEMS, optics, BAW/SAW, and decoration.

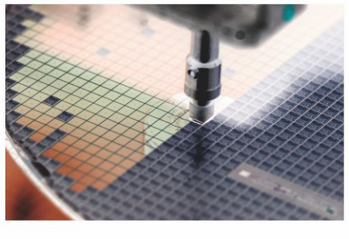
Vacuum Coating Equipment

Designed for lab to fab, FHR systems incorporate sputtering, evaporation, PECVD, and ALD technologies. Based on our customers needs, we build highly flexible cluster systems (FHR.Star-series), drum-coating systems (FHR.Boxx-series), high throughput and optimized for throughput continuous flow systems (FHR.Line-series), and even house-sized roll-to-roll systems (FHR.Roll-series).

Customer Service

We provide you with pre-sales and after-sales process debugging and technical support, indium 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.

FHR is a trusted partner for technical support, technical training, preventive maintenance, spare/wear parts, qualification, technical audits e.g. to judge on the condition of your existing systems. We'll serve you for machine relocation, upgrades and modernizations (retrofits) - even for third-party systems in the long term and most importantly, on a global scale.



INFRARED & LASER BUSINESS UNIT

The Infrared & Laser Business Unit is mainly engaged in the R&D, production, and sales of optical materials (infrared, laser, and radiation detector materials), infrared optical components and assemblies, infrared detector chips and infrared/radiation detection/laser systems. These products are widely used in automotive, healthcare, security and industrial segments.

Product & Application

Optical Materials

We provide our customers with all kinds of infrared, laser, imaging, and detection materials.

Infrared & Laser Materials

Ge	ZnSe	ZnS	Chalcogenide glass		
GaAs	GaSb	InSb	Si	MgF_2	CaF_2

Radiation Detection Materials

Detector-grade Ge	LYSO	CZT

Infrared Optics Lenses & Components

We supply optical lenses or components for infrared or laser applications using our optical materials. Such as all kinds of fixed-focus lenses, manual/ motorized focusing lenses, multiple FOV switched lenses, continuous zoom lenses with large zoom ratios, as well as infrared windows materials, dome materials, which widely used in Infrared thermal system.

Infrared Detectors

We provide a wide range of cooled and uncooled IR detectors, such as uncooled FPA detector based on VOx MEMS structure (384 x 288/640 x 512 resolution) , cooled medium (3~5um) detectors based on InSb or xBn material, and long wave (8~14um) cooled detector based on InAs/GaSb type-II super-lattices.

Infrared Camera Cores & Modules

We offer a wide range of cooled or uncooled infrared camera cores & modules with compact size, high sensitivity, ultra-low power consumption, and multiple interfaces with 320 x 256、384 x 288 and 640 x 512 resolutions available.

Thermal Infrared Systems

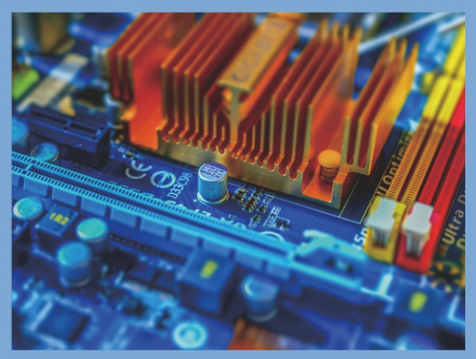
We provide integrated thermal imaging components, control systems, display systems, storage systems, pan-tilt-device system, and other overall solutions for end-users of infrared applications, including but not limited to OEM, ODM and complete system delivery. The system can cover various types of cooled and uncooled detectors, as well as the optical systems and display&control systems, etc.

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.

COMPOUND SEMICONDUCTOR BUSINESS UNIT

The Compound Semiconductor Business Unit is engaged in the R & D, production, and sales of III-V compound semiconductor materials, epitaxial wafers, and chips. Our products include high-purity materials, semiconductor substrates, electronic gases, metal-organic (MO) sources, PBN ceramic, epitaxial wafers, and laser chips, which are widely used in LED lighting, 3D sensing, facial recognition, self-driving, AR/VR, and 5G communication applications.



Product & Application

High Purity Materials

Vital supplies high purity metals (MBE grade), MO sources, electronic gases, and other products that can be used in crystal growth, CVD process, MBE technology, and other advanced process technologies. Vital has two production bases for MO sources products—Vital Materials (China) and KE Materials (South Korea).

High Purity Metal

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

Ultra High Purity Metal for MBE (+6N)

Ga	Al	Sb	As	Ge	In
P	Te	Zn			

MO Sources

TMGa	TEGa	TMIn	TMAl

Electronic Gas

AsH_3	GeH_4	PH_3	H_2Se

Technical Ceramics

PBN crucibles, boats and components

EPI Ready Substrates

Vital manufactures and provide high-quality EPI-ready semiconductor substrates using several advanced manufacturing processes such as high-precision wire-cutting equipment, high-flatness grinding and polishing equipment, specialized surface cleaning, and finish. These products are suitable for advanced optoelectronic epitaxial applications and RF device applications.

GaAs	InP	Ge
2, 3, 4, 6 and 8 inch	2, 3, 4 and 6 inch	2, 4, 6 and 8 inch

Epitaxial Wafers

Vital manufactures epitaxial wafers used in the production of laser chips, using MOCVD reactors imported from Germany. We provide foundry and customized services for growing epitaxial wafers based on the customers' design and requirements.

GaAs-based	InP-based

VCSEL Laser Devices

Vital has large volume production capacity for 650-1550 nm wavelength laser chips, including single-emitter or array type devices, and we also provide customized solutions. We provide contract manufacturing services such as epitaxial wafer cleaning and inspection of finished chips based on customer requirements, for example, custom chip layout or fabrication processes.

660/76X/780/808/850/905/940/980 nm VCSEL Singlet/Array

FUNCTIONAL MATERIALS & RECYCLING
BUSINESS UNIT

The Functional Materials & Recycling Business Unit supplies rare metals, alloys, and compounds and provides closed-loop metal recovery and recycling services for global customers.

Our subsidiary, "Vital Pure Metal Solutions GmbH" (" VPMS "), is licensed to process and recycle a wide range of complex materials, including hazardous materials, and provides sales and recycling solutions to customers worldwide.

Our commitments:

- Professional analysis technology
- Sustainable environmental solutions for all raw materials containing rare metals
- Process all materials to the highest industry standard in accordance with all applicable EHS Standards
- Advanced recovery technology, and cost efficient metal extraction processes for complex recovery and refining

Products and Services

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, 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, and other high-tech and strategic emerging industries.

Recycling Service

The Functional Materials & Recycling 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 of 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.

RARE METAL & ADVANCED MATERIALS

Product	
Antimony	Sb $SbCl_3$ Sb_2O_3 GaSb InSb Cd_3Sb_2 SnSb
Arsenic	As GaAs InAs Cd_3As_2 Zn_3As_2 Pb_3As_2 As_2S_3 $AsCl_3$
Bismuth	Bi Bi_2O_3 $Bi(OH)_3$ $BiCl_3$ $Bi(NO_3)_3$ $C_6H_5BiO_7$ $Bi_5O(OH)_9(NO_3)_4$ $C_7H_5BiO_4$ Bi_2S_3 BiOCl $Bi_2(Al_2O_4)_3 \cdot 10H_2O$ $(BiO)_2CO_3$ $BiVO_4$ $Bi_4K_2N_6C_{48}H_{60}O_6$ $C_7H_7O_2Bi$ $C_{12}H_{12}BiNa_3O_{18}$ BiOI $C_7H_4BiIO_6$ $Bi(NO_3)_3 \cdot 5H_2O$ $C_{18}H_{12}BiBr_3O_3$ Bi_2Te_3 Bi_2Se_3
Cadmium	Cd CdO $CdCl_2$ $CdCO_3$ CdSe $Cd(NO_3)_2 \cdot 4H_2O$ $CdSO_4$ CdSeTe
Copper	Cu
Gallium	Ga $GaCl_3$ Ga_2O_3 $Ga_2(SO_4)_3$ $Ga(NO_3)_3 \cdot xH_2O$

Product	
Germanium	HP Ge Zone-refined Ge Monocrystalline Ge for Infrared optics Polycrystalline Ge for Infrared optics $GeCl_4$ for Fibre Optic Grade GeO_2 for Catalyst Grade GeO_2 for Electronic Grade
Indium	In $In(OH)_3$ In_2O_3 $In(NO_3)_3$ $In_2(SO_4)_3$ $InCl_3$ $In_2(SO_4)_3 \cdot xH_2O$ InAs
Lead	Pb
Phosphorus	P InP GaP
Sulfur	S As_2S_3 Bi_2S_3 GeS PbS In_2S_3 ZnS Sb_2S_3 CdS
Selenium	Se ZnSe PbSe GaSe Bi_2Se_3 TeSe In_2Se_3 CdSe GeSe SbSe $SnSe_2$ H_2Se SeO_2 Na_2SeO_3 $ZnSeO_3$ Na_2SeO_4 $NaHSeO_3$ $BaSeO_3$ $Na_2SeO_4 \cdot 10H_2O$ $BaSeO_4$ K_2SeO_4 $C_{12}H_{24}N_2S_2Se$ SeS_2 As_2Se_3 FeSe

Product	
Tellurium	Te CdTe ZnTe Bi_2Te_3 CuTe GeTe PbTe SnTe GaTe In_2Te_3 Sb_2Te_3 TeO_2 H_6TeO_6 $C_{20}H_{40}N_4S_8Te$ Cu_2Te HgTe HgCdTe MnTe
Cobalt	Co_2O_3 Co_3O_4 $CoSO_4 \cdot 7H_2O$ $CoSO_4 \cdot H_2O$ CoO $Co(OH)_2$ $CoCl_2 \cdot 6H_2O$ $CoCO_3$
Tin	Sn SnO_2
Boron	B_2O_3
Zinc	Zn

BU	Product
Infrared & Laser For module and lens products please contact our sales team.	Detector-grade Ge Ge blanks, lens ZnSe ZnS GaAs for Optical Grade Si Chalcogenide infrared glass LYSO Crystals CZT Crystals BGO Crystal Precursor Materials
Compound Semiconductor	Ge Substrate GaAs Substrate InP Substrate GaAs/InP based EPI wafer TMGa, TEGa, TMIn, TMAl VCSEL Series (foundry) LED Series (foundry) EEL Series (foundry) AsH_3 , GeH_4 , PH_3 , H_2Se Ga, Al, Sb, As, Ge, In, P, Te, Zn

* Forms: Powder, Cylinders, Shots, Lumps, Granules, Ingots, Balls, Sticks, Sheets, Liquid(bottle), etc

BU		Product
Thin Film Technology	Sputtering Targets	ITO IGZO CdTe CIGS CdZnTe CdS In_2Se_3 In_2S_3 ZnTe NbOx BeCu V ZrY Al AlSc CoTaZr Cr CrCo Cu CuGa CIG C-GST In InSn Nb Ni Sn Si SiAl Ta Ti WTi Ag Au Pt Ru NiPt
	Evaporation Materials	Al Cr Cu Ge Hf In Ni Si Sn Ti Al_2O_3 HfO_2 ITO Nb_2O_5 Ti_3O_5 Ta_2O_5 CdSe ZnSe ZnS YbF_3 CeF_3 BaF_2
	Evaporation Accessories	Evaporation Boats E-Beam Crucibles
	Parts	Electrostatic Chuck Shower Head Robot

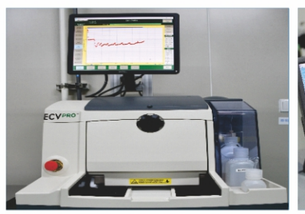
* Other products and purity requirements are avalible upon request

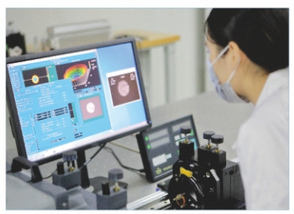
R&D CAPABILITIES

HIGH PURITY TECHNOLOGIES	• High purity metal purification • High purity electronic gas purification • High purity reagent purification • High purity compound synthesis
CRYSTAL TECHNOLOGIES	• High purity polycrystalline material synthesis • Crystal growth • Crystal processing • Crystal application research • Crystal growth equipment design
TARGET MATERIAL TECHNOLOGIES	• Powder synthesis • Ultrafine powder processing and granulation • Target molding • Target sintering • Metal target casting and heat treatment • Target bonding and testing
NANOTECHNOLOGIES	• Nano-material synthesis • Dispersion and morphology control • Surface treatment • Application research
CHIP TECHNOLOGIES	• Epitaxial growth technology • Chip processing technology
OPTICAL TECHNOLOGIES	• 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 Materials is committed to providing customized solutions for the leading-edge, high-growth global markets, including analysis and testing, technical support, OEM, material recycling and reclamation, inventory management, R&D services, etc. Our specialized team constantly create value for customers with cost advantage and technology innovative advantage.





GLOBAL PRESENCE

High Purity Materials Plant
(Heyun Industrial Park)

Advanced Materials Plant
(Qingyuan Industrial Park)

Rare Materials Plant
(Yunlong Industrial Park)

Recycling Plant
(Xiongxing Industrial Park)

Vital Pigments (Tianjin) Co., Ltd
(Teda Industrial Park)

CS Microelectronics Co., Ltd
(Gaofeng Park)

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Industiral Bases

High Purity Materials Production Plant (Qingyuan, Guangdong)

Advanced Materials Production Plant (Qingyuan, Guangdong)

Vital Thin Film Materials Production Plant (Qingyuan, Guangdong/Hefei, Anhui/Zibo, Shandong)

Vital Pigments (Tianjin) Co., Ltd (Pigments Plant)

Infrared Optical Plant (Harbin/Chuzhou, Anhui)

Functional Materials & Recycling Bases

Leiyang, Hunan

Qingyuan, Guangdong

Regional Sales Centers

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