INFRARED OPTICAL LENS

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VOT

VITAL OPTICS TECHNOLOGY

INFRARED OPTICAL LENS

votinfrared.com

CORPORATE CULTURE

MISSION

TO EMPOWER HUMANS TO PERCEIVE THE WORLD IN MORE DIMENSIONS

VISION

BECOME A GLOBAL LEADER IN THE OPTOELECTRONICS FIELD

VALUES

RESPECT, COLLABORATION, PERSEVERANCE, INNOVATION

COMPANY INTRODUCTION

Vital Optics Technology Co., Ltd. was listed on the Growth Enterprise Market of the Shenzhen Stock Exchange in July 2015, with the stock code: 300489.

VOT is a dedicated national high-tech enterprise specializing in optoelectronic technology, positioning us at the vanguard of innovation in this field. With comprehensive capabilities spanning the entire industry chain, we are capable of full-scale production from the growth of optoelectronic materials, chip design, key sensor manufacturing, to system integration. We offer a diverse range of products and solutions tailored to the needs of the global market: Infrared materials and components, MEMS and detectors, customized core and lens assemblies, multifunctional thermal imaging cameras, tailored integrated optoelectronic systems and solutions.

Our product applications span a diverse array of cutting-edge fields: Artificial Intelligence, semiconductor technology, advanced materials science, renewable energy solutions, medical diagnostics, sophisticated scientific instruments, large-scale research equipment, night vision for outdoor applications, industrial thermal measurement, machine vision technology, internet of Things devices, environmental monitoring systems, Unmanned Aerial Vehicle payloads, assisted driving technologies.

VOT's commitment to innovation and quality ensures that our products meet the rigorous demands of these industries, positioning us as a trusted partner for customers seeking advanced optoelectronic solutions.

Total Number of Employees **2000+** Ratio of R&D personnel **26%**

QUALIFICATIONS AND AWARDS

Led by a team of doctoral experts

Applied for 1164 patents

631 patents
Invention patents

498 patents
Utility model patents

35 patents
Design patents

- **ISO 9001:2015** Quality Management System Certificate
- **ISO 14001:2015** Environmental Management System Certificate
- **ISO 45001:2018** Occupational Health and Safety Management System Certificate

CORE TECHNOLOGY

01 All Industries

Empower national security, smart cities, low-altitude economy and natural resources; drive industrial intelligent upgrading, unlock tech value in diverse scenarios, and co-build a new intelligent era.

02 Intelligent Platform

With leading algorithms as core engine, build an evolvable, adaptable intelligent platform; continuously deliver innovation and supply "intelligent fuel" for industrial intelligent transformation.

03 Intelligent Perception

Integrate diverse perception devices, cover infrared, laser, radio frequency and other multi-modal dimensions; enable comprehensive, real-time and accurate capture of the physical world, and serve as "acute nerves" for intelligent systems.

04 Independent Chips

Leverage full-stack independent R&D (from MEMS sensors to Class I superlattice chips) to build Chinese chips' "core strength"; secure full hardware independence and create a safe, efficient perception fortress for the intelligent era.

05 Material Foundation

Build on material innovation, break performance boundaries at the atomic level; lay a solid "performance foundation" for the entire industrial chain and endow tech innovation with differentiated competitiveness from the source.

MARKETS

1.Automotive

a.Automotive Night Vision

b.Advanced driver-assistance systems(ADAS)

2.Personal Vision Systems

a.Riflescopes

b.Handheld Vision Systems

3.Professional Services

a.Law Enforcement

b.Fire Fighting

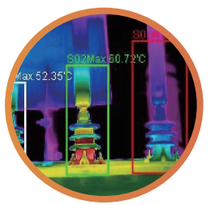
4.Fever Detection Systems

a.Elevated Skin Temperature

5.Surveillance

a.Building Security

b.Homeland Security



6.Thermography

a.Preventive Maintenance

7.Other

a.UAVs/Drones

b.Smart Buildings

c.Smartphones

VOT LW UNCOOLED LENSES INDEX

NO.	FL (mm)	F/#	Detector Type	FOV (°)	Focus Mechanism	External Coating	Operating Temperature(℃)	Sealing
LA-0001	50	1.0	640*512,17μm	12.4(H)*10(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0002	50	1.2	640*512,17μm	12.4(H)*10(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0003	35	1.0	640*512,17μm	17.7(H)*14.2(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0004	100	1.2	640*512,17μm	6.2(H)*5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0005	75	1.2	640*512,17μm	8.3(H)*6.6(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0006	60	1.0	640*512,17μm	10.4(H)*8.3(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0007	60	1.2	640*512,17μm	10.4(H)*8.3(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0008	35	1.2	640*512,17μm	17.7(H)*14.2(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0009	25	1.0	640*512,17μm	24.6(H)*19.8(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0011	13	1.0	384*288,17μm	28.19(H)*21.33(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0012	9	1.0	384*288,17μm	39.9(H)*30.4(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0013	15	1.0	384*288,17μm	24.55(H)*18.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0014	19	1.0	384*288,17μm	19.5(H)*14.7(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0018	13	1.2	640*512,17μm	45.41(H)*37.02(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0019	19	1.2	640*512,17μm	32(H)*25.8(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0020	25	1.0	640*512,17μm	24.6(H)*19.8(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0023	75	1.0	1280*1024,12μm	11.7(H)*9.4(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0027	11	1.0	256*192,12μm	15.9(H)*11.96(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0035	6.2	1.0	384*288，174μm	60(H)*44.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0036	2.1	1.3	256*192,12μm	72.4(H)*57.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0037	3.6	1.0	256*192,12μm	46.2(H)*35.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0038	7.1	1.0	256*192,12μm	24.4(H)*18.4(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0045	3.6	1.0	256*192,12μm	46.2(H)*35.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0050	50	1.0	1280*1024,12μm	17.5(H)*14(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0051	60	1.0	1280*1024,12μm	14.6(H)*11.7(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0052	25	1.2	1280*1024,12μm	34.2(H)*26(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0054	35	1.2	1280*1024,12μm	24.8(H)*19.9(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0055	35	1.0	1280*1024,12μm	24.8(H)*19.9(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0057	4.6	1.0	640*512,12μm	90(H)*67.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0058	18	1.0	640*512,12μm	24.09(H)*19.37(V)	Athermalized	AR	-40℃ to +80℃	IP67

VOT LW UNCOOLED LENSES INDEX

NO.	FL (mm)	F/#	Detector Type	FOV (°)	Focus Mechanism	External Coating	Operating Temperature(℃)	Sealing
LA-0059-A	6.6	1.0	640*512,12μm	45.8(H)*37.3(V)	Athermalized	AR	-40℃ to +60℃	IP67
LA-0064-A	100	1.0	1280*1024,12μm	8.78(H)*7.03(V)	Athermalized	AR	-40℃ to +60℃	IP67
LA-0070	25	1.0	640*512,12μm	24.5(H)*19.5(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0072	75	1.2	640*512,12μm	5.86(H)*4.69(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0076	13	1.0	640*512,17μm	45.41(H)*37.02(V)	Athermalized	DLC	-40℃ to +80℃	IP67
LA-0079	9.1	1.0	640*512,12μm	45.8(H)*37.3(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0080	13	1.0	640*512,12μm	32.9(H)*26.59(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0081	19	1.0	640*512,12μm	22.85(H)*18.37(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0088-A	6.6	1.0	640*512,12μm	69(H)*54(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0089	35	1.2	640*512,17μm	17.6(H)*14.1(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0093	15	1.0	384*288,12μm	17.46(H)*13.14(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0094	19	1.0	384*288,12μm	13.8(H)*10.3(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0095	25	1.0	640*512,12μm	17.4(H)*14(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0097-A	11	1.0	384*288,12μm	23.6(H)*17.8(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0152	9.1	1.0	640*512,12μm	45.8(H)*37.3(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0165	14	1.0	1280*1024,12μm	60(H)*48.53(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0169	25	1.0	1280*1024,12μm	34.15(H)*21.76(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0170	19	1.0	640*512,12μm	22.85(H)*18.37(V)	Athermalized	HD	-40℃ to +80℃	IP67
LA-0171	25	1.0	640*512,12μm	17.46(H)*14.01(V)	Athermalized	HD	-40℃ to +80℃	IP67
LA-0174	13	1.0	640*512,12μm	32.9(H)*26.6(V)	Athermalized	HD	-40℃ to +80℃	IP67
LA-0187	35	1.0	640*512,12μm	12.48(H)*10.01(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0194	9.1	1.0	640*512,12μm	22.85(H)*18.37(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0201	50	1.0	640*512,17μm	12.42(H)*9.95(V)	Athermalized	AR	-40℃ to +80℃	IP67
LA-0207	35	1.0	640*512,12μm	12.43(H)*9.97(V)	Athermalized	HD	-40℃ to +80℃	IP67
LB-0002	75	1.0	640*512,17μm	8.3(H)*6.6(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0003	50	1.0	640*512,17μm	12.4(H)*10(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0004	100	1.0	640*512,17μm	6.2(H)*5(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0005	150	1.0	640*512,17μm	4.2(H)*3.3(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0006	25	1.0	640*512,17μm	24.6(H)*19.8(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0007	20	1.0	640*512,17μm	30.4(H)*24.6(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0010	120	1.0	640*512,17μm	5.2(H)*4.2(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0013	20	1.0	640*512,17μm	30.4(H)*24.6(V)	Manual	DLC	-40℃ to +60℃	IP67

VOT LW UNCOOLED LENSES INDEX

NO.	FL (mm)	F/#	Detector Type	FOV (°)	Focus Mechanism	External Coating	Operating Temperature(℃)	Sealing
LB-0016-A	18	1.0	640*512,12μm	24.09(H)*19.37(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0023	75	1.0	640*512,17μm	8.3(H)*6.6(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0024	150	1.2	640*512,17μm	4.2(H)*3.3(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0030	3.1	1.0	640*512,12μm	108(H)*92.6(V)	Athermalized	AR	-40℃ to +80℃	IP67
LB-0034	50	1.0	1280*1024,12μm	17.5(H)*14(V)	Motor	DLC	-40℃ to +80℃	IP67
LB-0035	75	1.0	1280*1024,12μm	11.7(H)*9.4(V)	Motor	DLC	-40℃ to +80℃	IP67
LB-0039	6.6	1.0	640*512,12μm	45.8(H)*37.3(V)	Manual	AR	-40℃ to +80℃	IP67
LB-0044	150	1.0	1280*1024,12μm	5.86(H)*4.69(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0045	7	1.0	640*512,17μm	102(H)*77(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0050	100	1.0	1280*1024,12μm	8.78(H)*7.03(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0058	50	0.85	640*512,17μm	12.4(H)*10(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0061	35	1.0	640*512,12μm	12.52(H)*10.03(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0065	35	1.0	640*512,17μm	17.7(H)*114.2(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0066	25	1.0	640*512,17μm	24.6(H)*19.8(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0096	35	1.0	640*512,17μm	17.7(H)*114.2(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0099	100	1.0	640*512,17μm	6.23(H)*4.67(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0170	60	1.0	640*512,12μm	7.32(H)*5.86(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0186	25	1.0	640*512,12μm	17.46(H)*14.01(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0214	35	1.0	640*512,12μm	12.52(H)*10.03(V)	Manual	DLC	-40℃ to +60℃	IP67
LB-0215	100	1.3	640*512,12μm	4.38(H)*3.51(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0221	25	1.0	640*512,12μm	17.45(H)*14(V)	Motor	DLC	-40℃ to +60℃	IP67
LB-0228	35	1.0	640*512,12μm	12.5(H)*10.01(V)	Manual	HD	-40℃ to +60℃	IP67
LB-0229	50	1.0	640*512,12μm	8.76(H)*7.02(V)	Manual	HD	-40℃ to +60℃	IP67
LB-0236	35	1.0	640*512,12μm	12.5(H)*10.01(V)	Manual	HD	-40℃ to +60℃	IP67
LB-0249	50	1.0	640*512,12μm	8.76(H)*7.02(V)	Manual	HD	-40℃ to +60℃	IP67

VOT LW UNCOOLED LENSES INDEX

NO.	FL (mm)	F/#	Detector Type	FOV (°)	Focus Mechanism	External Coating	Operating Temperature(℃)	Sealing
LE-0001-A	f30-f150	0.84 1.2	640*512,17μm	20.56(H)*16.5(V) 4.2(H)*3.3(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0002-B	f25-f100	0.76 1.0	640*512,17μm	24.55(H)*19.8(V) 6.2(H)*5(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0003	f25-f75	0.8 1.0	640*512,17μm	24.55(H)*19.8(V) 8.3(H)*6.6(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0004-B	f30-f185	0.82 1.2	640*512,17μm	20.56(H)*16.5(V) 3.37(H)*2.7(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0007	f18-f54	1.0 1.13	1280*1024,12μm	46.2(H)*37.7(V) 16.2(H)*13(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0010	f20-f50	1.0 1.13	640*512,17μm	30.4(H)*24.6(V) 12.42(H)*9.95(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0016	f20-f120	0.9 1.2	640*512,17μm	30.43(H)*24.55(V) 5.19(H)*4.15(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0023	f25-f225	0.85 1.35	1280*1024,12μm	35.8(H)*28.45(V) 3.91(H)*3.13(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0024	f15-f60	0.85 1.1	640*512,17μm	42.62(H)*33.81(V) 10.09(H)*8.54(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0026	f30-f150	1.0 1.0	640*512,17μm	20.56(H)*15.49(V) 4.15(H)*3.12(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0029-A	f30-f137	0.9 1.2	640*512,12μm	14.71(H)*11.75(V) 3.19(H)*2.56(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0030	f20-f100	0.72 1.0	640*512,12μm	22(H)*17.62(V) 4.37(H)*3.51(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0032	f25-f225	1.0 1.5	640*512,17μm	25.02(H)*20(V) 2.68(H)*2.15(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0033	f30-f150	0.85 1.2	1280*1024,12μm	29.86(H)*23.74(V) 5.82(H)*4.67(V)	Motor	DLC	-40℃ to +60℃	IP67

MEDIUM WAVE COOLED INFRARED LENS MODEL TABLE

NO.	FL (mm)	F/#	Detector Type	FOV (°)	Focus Mechanism	External Coating	Operating Temperature(℃)	Sealing
LA-0197	25	1.2	640*512,15μm	21.74(H)*17.46(V)	Athermalized	HD	-40℃ to +60℃	IP67
LB-0031	50	2.0	640*512,15μm	10.97(H)*8.78(V)	Motor	AR	-40℃ to +60℃	IP67
LB-0032-A	50	2.0	640*512,15μm	10.97(H)*8.78(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0085	25	4.0	1280*1024,10μm	28.72(H)*23.15(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0086	50	4.0	1280*1024,10μm	14.59(H)*11.69(V)	Manual	AR	-40℃ to +80℃	IP67
LB-0087	100	4.0	1280*1024,10μm	7.32(H)*5.68(V)	Manual	AR	-40℃ to +60℃	IP67
LB-0093	25	4.0	1280*1024,12μm	28.72(H)*23.15(V)	Motor	AR	-40℃ to +60℃	IP67
LB-0094	50	4.0	1280*1024,10μm	14.59(H)*11.69(V)	Motor	AR	-40℃ to +80℃	IP67
LB-0095	100	4.0	1280*1024,10μm	7.32(H)*5.68(V)	Motor	AR	-40℃ to +60℃	IP67
LB-0169	20	4.0	640*512,15μm	27.89(H)*22.2(V)	Motor	AR	-40℃ to +80℃	IP67
LB-0193	50	1.2	320*256,30μm	11.05(H)*8.84(V)	Motor	AR	-40℃ to +60℃	IP67
LB-0198	25	1.2	320*256,30μm	22.41(H)*17.78(V)	Manual	AR	-40℃ to +60℃	IP67
LE-0021	f17-f230	4.0	640*512,15μm	31.53(H)*25.46(V) 2.39(H)*1.91(V)	Motor	DLC	-40℃ to +60℃	IP67
LE-0035	f15-f300	4.0	640*512,15μm	35.5(H)*28.7(V) 1.83(H)*1.47(V)	Motor	DLC	-40℃ to +60℃	IP67

TO EMPOWER HUMANS TO PERCEIVE THE WORLD IN MORE DIMENSIONS


VOT