A NEW DRIVING VISION · POWERFUL NIGHT PERCEPTION

5"/7" HIGH-PERFORMANCE VEHICLE THERMAL NIGHT VISION



HOW THERMAL IMAGING IMPROVES NIGHT SAFETY

Poor visibility, glare, haze and fog at night

cause 70% of major traffic accidents

THERMAL IMAGING SOLVES THESE ISSUES

SEES THROUGH DARKNESS





BLOCKS GLARE





CUTS THROUGH FOG

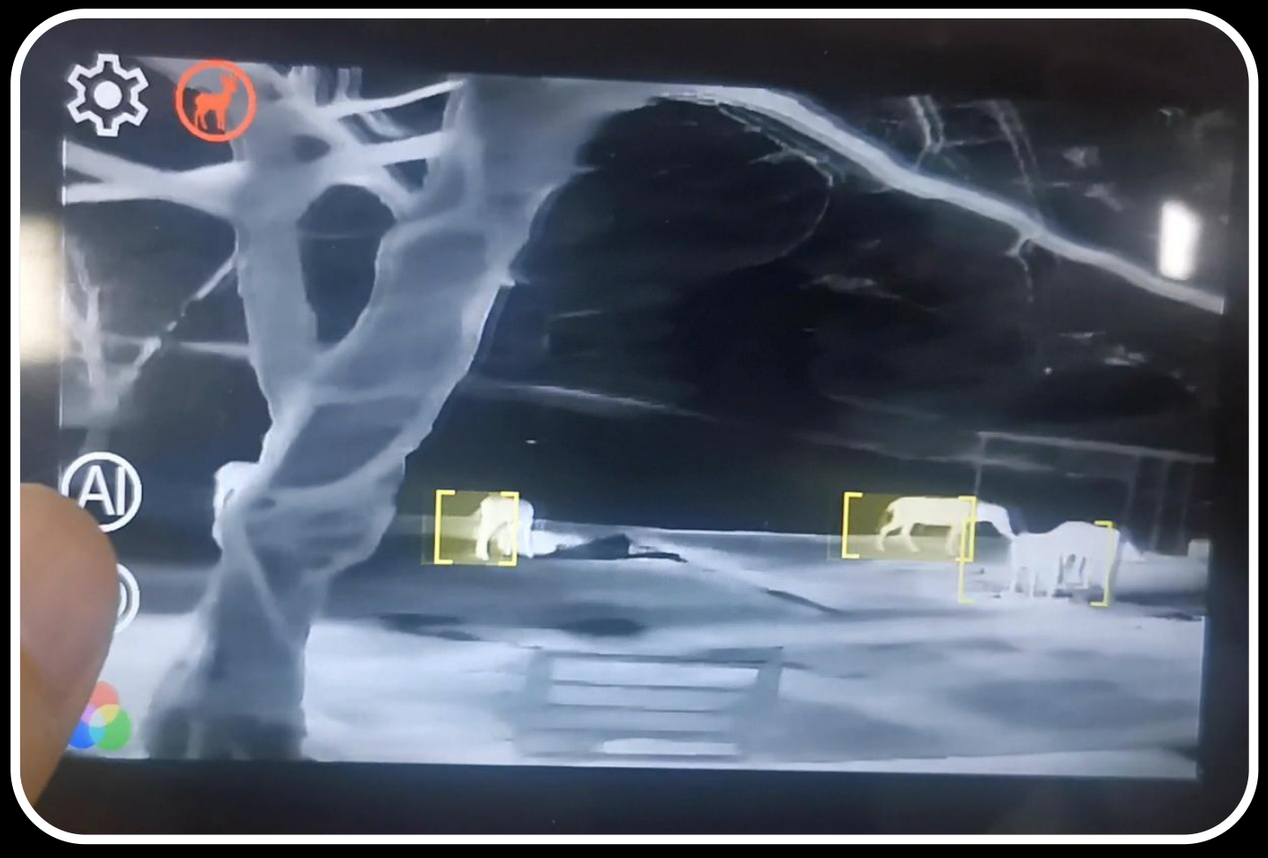


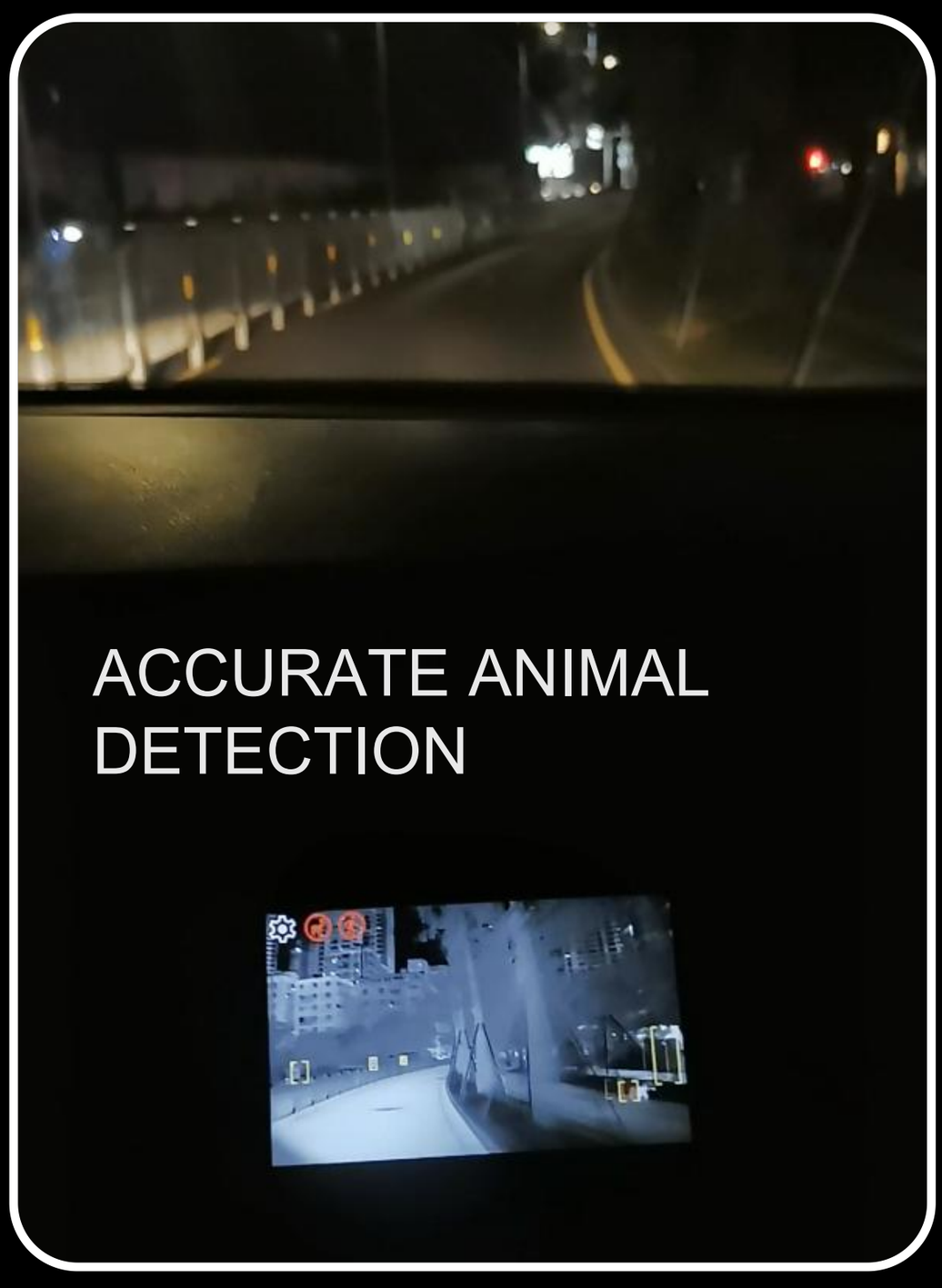


Thermal imaging (far infrared) forms images from surface temperature differences and needs no light. In total darkness, glare, haze and fog it detects heat sources — people, animals and vehicles — giving drivers a decisive edge over visible-light cameras.

ADVANCED AI

PEOPLE / VEHICLE / ANIMAL AI DETECTION





ACCURATE ANIMAL DETECTION



MULTI-TARGET PERSON & VEHICLE



LONG-RANGE SMALL TARGETS

ULTRA-LOW LATENCY
50 FPS HIGH FRAME RATE

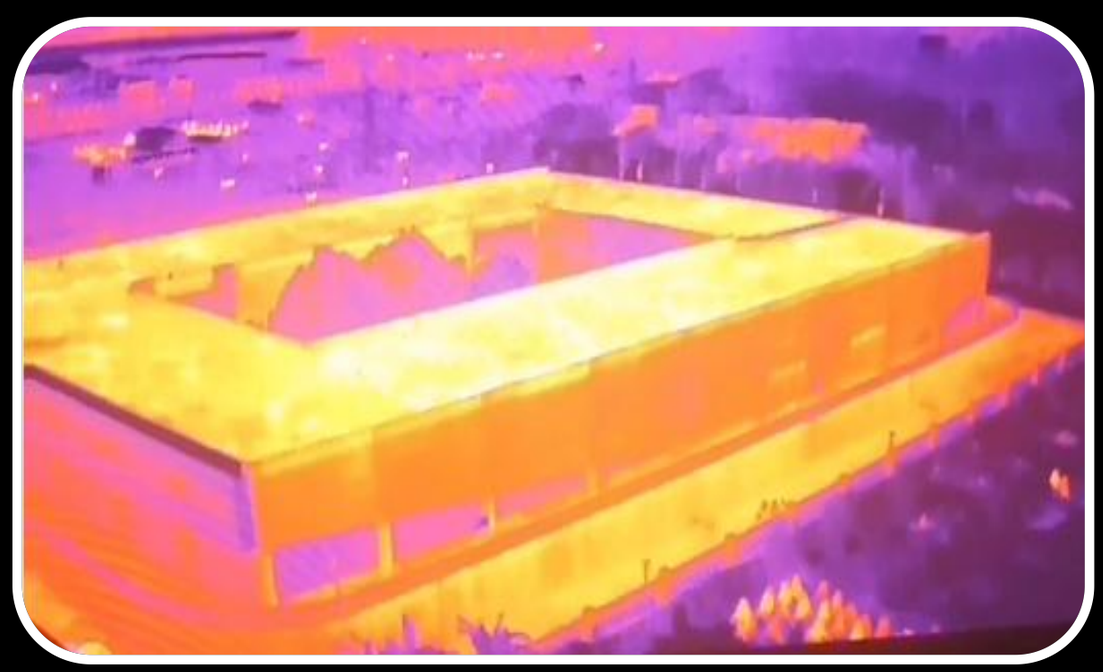
7 COLOR PALETTES, QUICK SWITCH



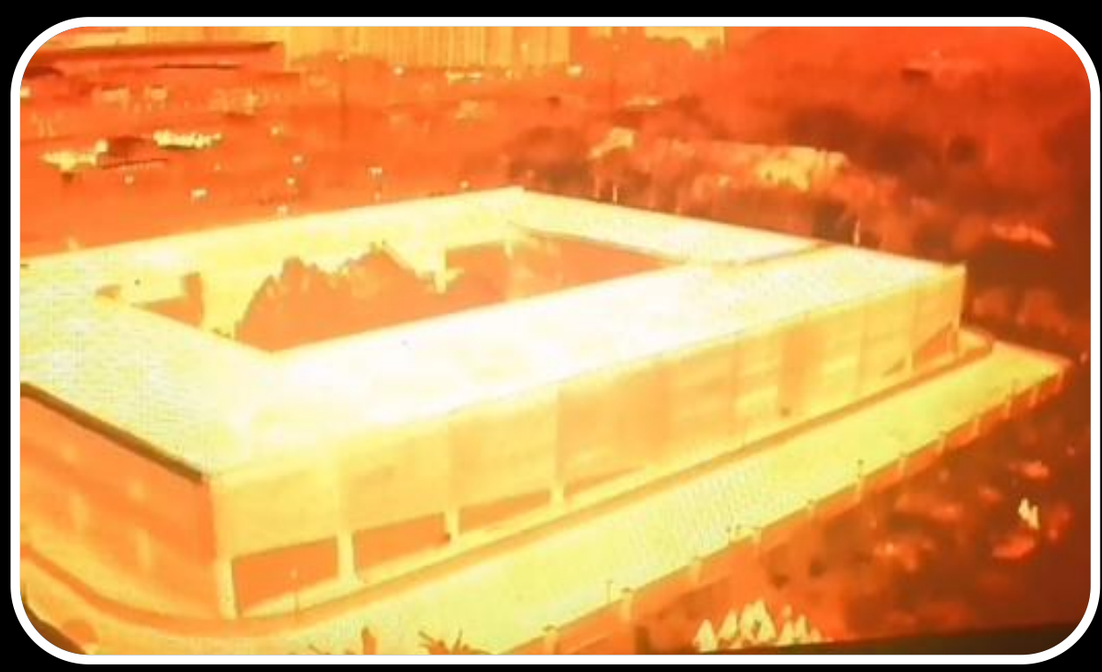
White hot



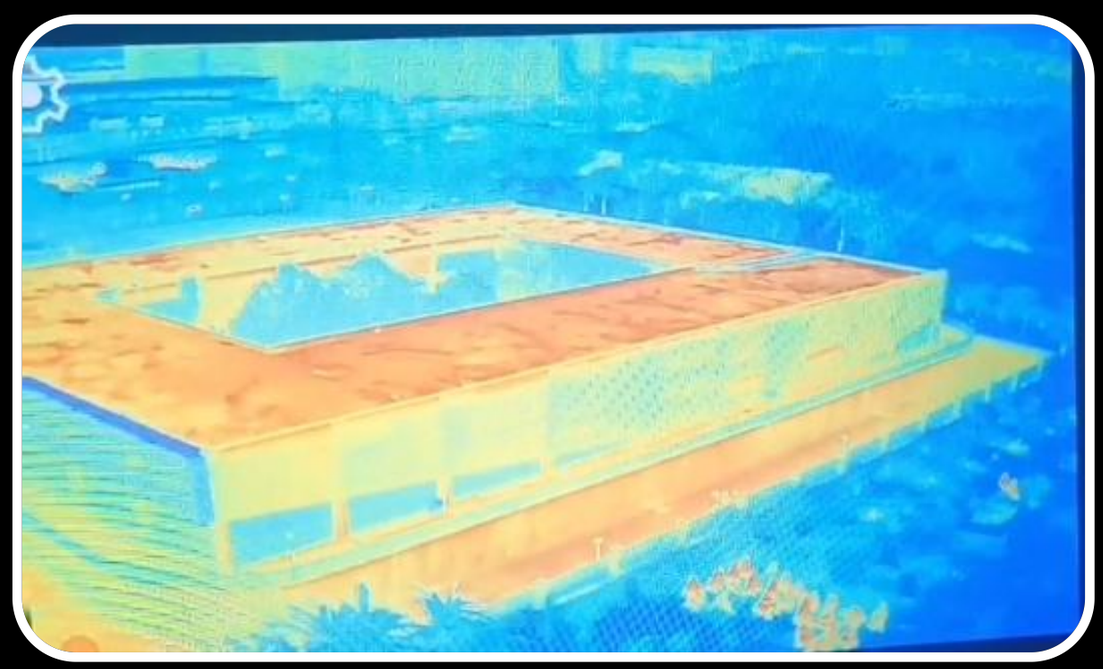
Black hot



Ironbow



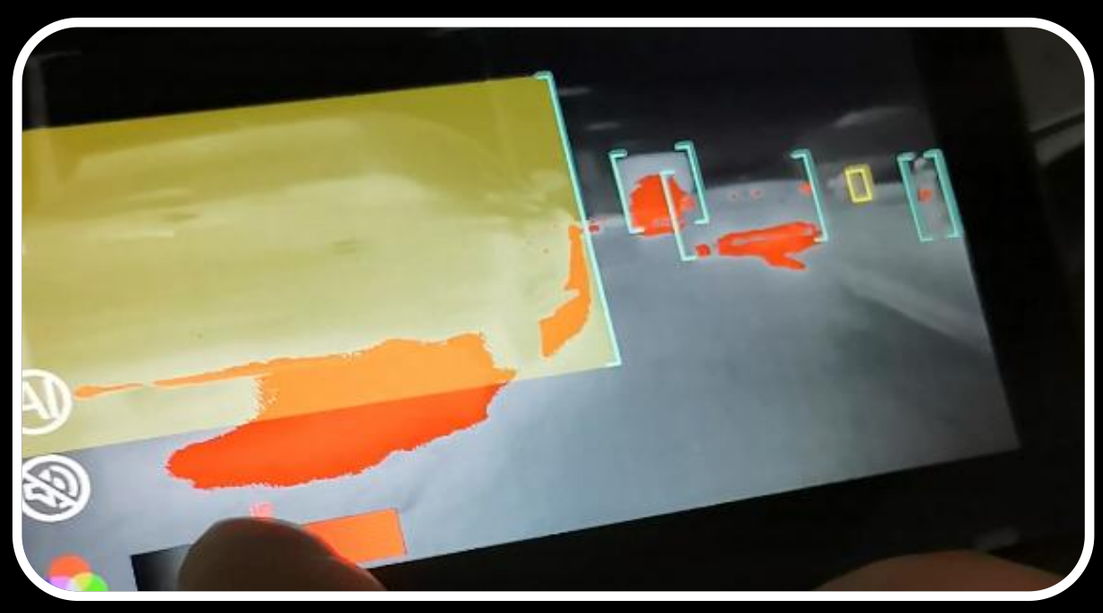
Hot



Rainbow



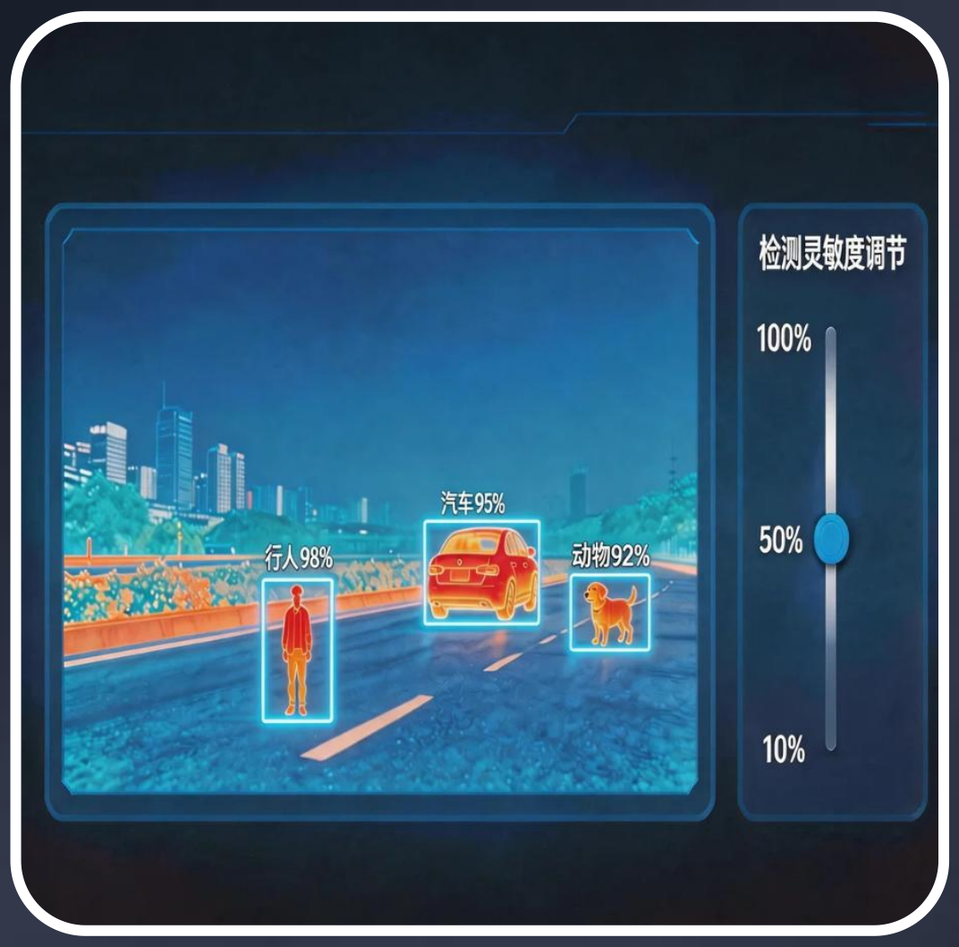
Lava



Red Hot
(adjustable threshold)



Custom alert zone



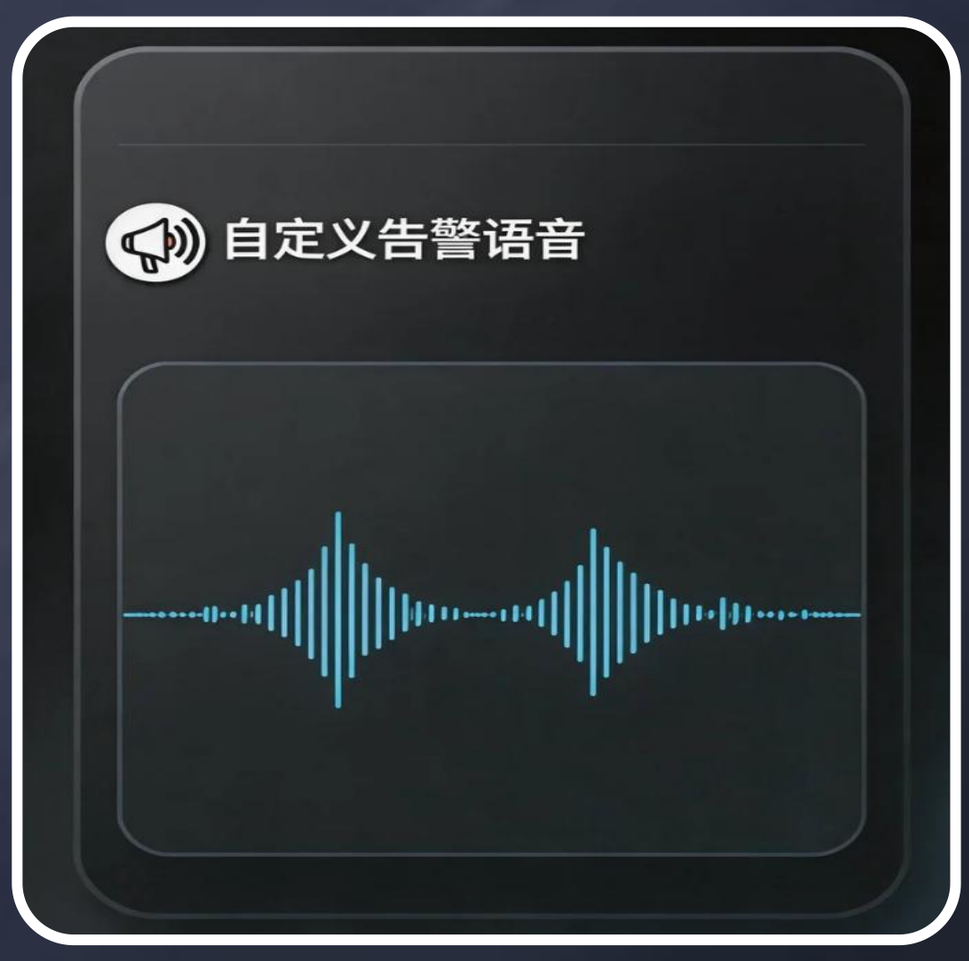
Adjustable sensitivity



Supports recording



10 languages supported



Custom alert voice



Customizable boot video & logo





HARDENED WINDOW
PROTECTS LENS

AUTO DEFROST WINDOW
(ON <2°C, OFF >7°C)

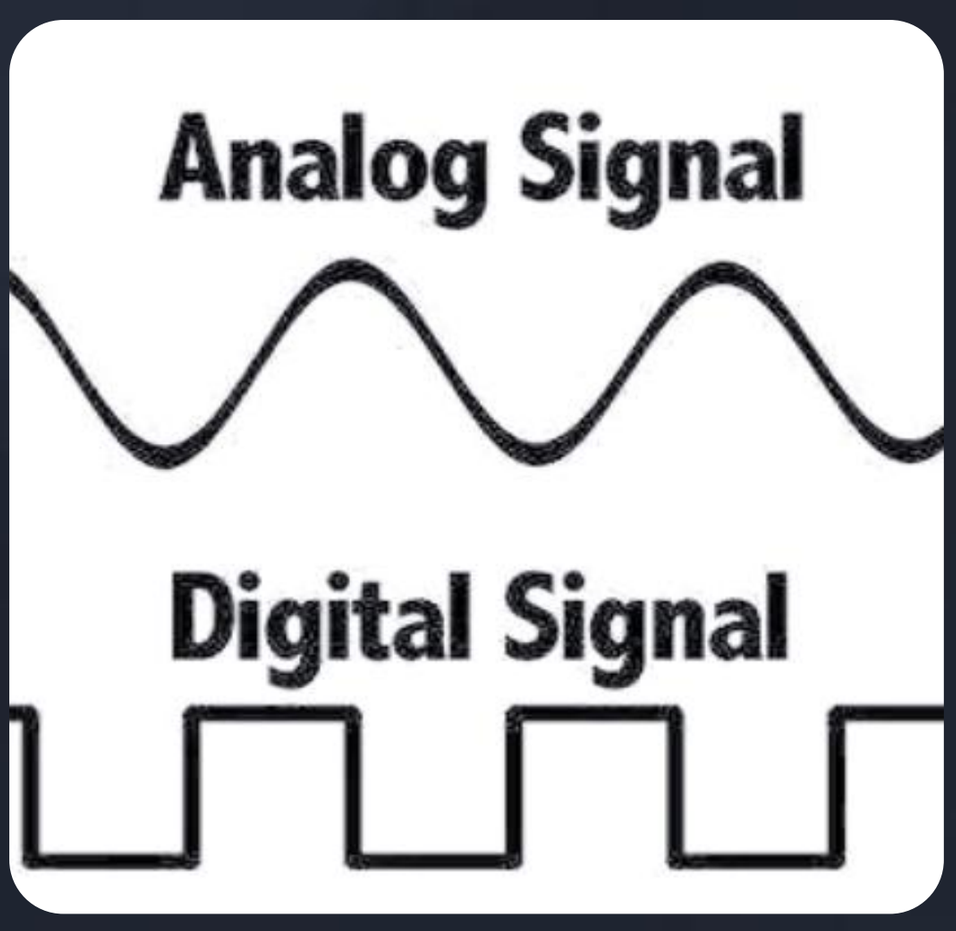




CAMERA IP67

HOST IP66





2.5D TOUCHSCREEN

3.3V ALARM OUTPUT

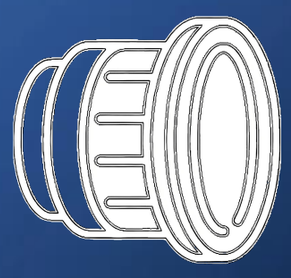
NIGHT VISION

A DECADE OF FOCUS
ONE PRODUCT, DONE RIGHT

256*192
384*288
640*512

MULTI-RESOLUTION

HIGH-PERFORMANCE DETECTOR



9.1mm LENS

CLEARER, LONGER RANGE



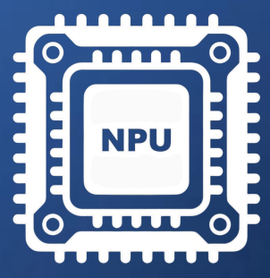
AUTO DEFROST

ON <2°C, OFF >7°C



CAMERA IP67

RAIN & DUST RESISTANT



3T NPU

DEDICATED AI CHIP



MAX 100M

100m PEDESTRIAN

3-SEC EARLY ALERT

INSTALLATION







THERMAL CAMERA







FITS 17mm BALL MOUNT BRACKET

HOST INSTALLATION



5" HOST



7" HOST

PACKAGE LIST







5" OR 7" HOST (CHOOSE ONE)

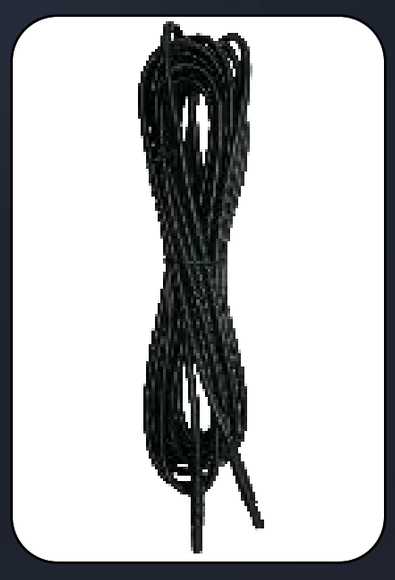
256*192/384*288/640*512
THERMAL CAMERA (OPTIONAL RES.)



HOST MOUNT



CIG PLUG



CAMERA CABLE

5m



CAMERA MOUNT

SPECIFICATIONS

PRODUCT	5"/7" VEHICLE THERMAL NIGHT VISION		
THERMAL CAMERA			
RESOLUTION	256*192	384*288	640*512
MODEL (5")	L5P-2	L5P-3	L5P-6
MODEL (7")	L7P-2	L7P-3	L7P-6
FOCAL LENGTH	9.1mm		
FOV	18°13°	29°22°	45°37°
NIGHT RANGE (PERSON)	236m	214m	214m
NIGHT RANGE (VEHICLE)	347m	315m	315m
AI RANGE (PERSON)	100m	90m	80m
AI RANGE (VEHICLE)	200m	190m	180m
AI RANGE (ANIMAL)	60m	55m	50m
DIMENSIONS (mm)	52*30*26 (L*W*H)		
WINDOW / AUTO DEFROST	YES		
BAND / PIXEL PITCH	8-14μm / 12μm		
NETD	≤40mK @25℃，F#1.0		
OPERATING TEMP.	-30°C - 70°C		
IMAGE PROCESSING	Detail enhancement, auto shutter		
HOST UNIT			
DISPLAY	2D touch / 1024*600 IPS HD		
PROCESSOR	Linux, 3T NPU, ≥98%, 50 FPS		
COLOR PALETTES	White-hot (default), Black-hot, Iron, Warm, Rainbow, Lava, Red-hot		
ALGORITHM	Pedestrians (bikes, e-bikes, motorcycles), vehicles, animals		
ALARM	Built-in alarm (per-class) / 3.3V output		
OTHERS	Recording / brightness / volume / sensitivity		
OPERATING TEMP.	-30°C - 70°C		
VOLTAGE / POWER	DC9-32V (cig plug) / <7W		
DIMENSIONS (L*W*H)	142*38*97 (5") / 180*25*120 (7")		
WEIGHT	280g (5") / 420g (7")		

Note: person >1.7m, vehicle >2.3m wide, animal >1.5m