



DETECTION, CAPTURE, EXPLORATION, SEARCH

HTM180

A THERMAL IMAGING INFRARED RANGING INTEGRATED
NIGHT VISION INSTRUMENT



HIGH PERFORMANCE NIGHT VISION DEVICE RECORDS WONDERFUL MOMENTS



INFRARED
IMAGING



DIURNAL
OBSERVATION



LASER
RANGING



SATELLITE
POSITIONING



VIDEO
RECORDING



PHOTO
FUNCTION



EASY
EXPORT



ELECTRON
ZOOM

UNCOOLED



INFRARED DETECTORS PROVIDE
HIGH-RESOLUTION INFRARED IMAGES

POLARITY

RANGING DISTANCE

CAMERA MODULE



ELECTRONIC COMPASS

ALTITUDE: 15M
N: 36°08.8144
E: 120°24.7359

BLACK/WHITE HEAT +8 FALSE COLORS

FULLY IMPROVE TARGET IDENTIFICATION

THE 640X512 LONG-WAVE UNCOOLED INFRARED DETECTOR CAN PROVIDE HIGH-QUALITY HIGH-RESOLUTION INFRARED IMAGES. NO MATTER AT NIGHT, HAZE, AND SMOKE ENVIRONMENT CAN SEARCH AND DETECT THE TARGET.



HTM180 REAL SHOT DISPLAY

BLACK/WHITE HEAT +8 FALSE COLORS



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HTM180 REAL SHOT DISPLAY



RIGHT WAVE ROCKER CAN SWITCH FALSE COLOR MODE
(SWITCH ONLY IN INFRARED MODE)

LOW-LIGHT COLOR CMOS SENSOR AND ADVANCED DIGITAL
NOISE REDUCTION ALGORITHM ARE USED TO REALIZE THE USE
OF LOW-LIGHT IMAGING WITH INFRARED DETECTOR, SO AS TO
HELP USERS FIND HIDDEN TARGETS



PRECISION RANGING FUNCTION



RANGING UP TO 3 KILOMETERS

THE HTM180 IS ALSO INTEGRATED WITH 3KM EYE SAFETY RANGING, WHICH CAN HELP USERS QUICKLY LOCATE THE TARGET DISTANCE



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1196m





BY FLIPPING THE ROCKER UP AND DOWN TO
ACHIEVE THE MULTIPLIER

BEIDOU II GENERATION SATELLITE POSITIONING AND HIGH PRECISION DIGITAL COMPASS

HELP USERS LOCATE THEIR OWN AND TARGET COORDINATES AND AZI-
MUTH AND OTHER GEOGRAPHIC INFORMATION



APPEARANCE INTRODUCTION

INFRARED LENS PROTECTION COVER



INFRARED LENS

LOW-LIGHT LENS

LASER WINDOW



INFRARED LENS	RECEIVED INFRARED IMAGE
LOW-LIGHT LENS	RECEIVING LOW-LIGHT IMAGE
LASER WINDOW	THE LASER IS THEN TRANSMITTED AND RECEIVED DURING THE RANGING
POSITION SENSOR	BUILT-IN POSITIONING MODULE AND ELECTRONIC COMPASS, CANNOT COVER AND RECEIVE STRONG MAGNETIC EXCITATION
VIDEO MODULE	ACTIVATE OR DISABLE THE VIDEO MODULE
TAKE PHOTOS/VIDEO	AFTER THE RECORDING FUNCTION IS ENABLED, SHORT PRESS THE PHOTO AND LONG PRESS TO START OR END RECORDING
DATA OUTPUT	OUTPUT IMAGES AND EXPORT PICTURES AND VIDEOS THROUGH THE INCLUDED EXTERNAL WIRING
BATTERY COVER	OPEN THE BATTERY COMPARTMENT COVER AND INSTALL AND REPLACE THE BATTERY
FOCUS BUTTON (REMOTE)	USED FOR FOCUSING ADJUSTMENT OF INFRARED LENS
FOCUS BUTTON (CLOSE)	USED FOR FOCUSING ADJUSTMENT OF INFRARED LENS
DISPLAY EYEPIECE	DISPLAY THE IMAGE INFORMATION, ADJUST THE FOCUSING HAND WHEEL RESPECTIVELY, AND TIGHTEN THE EYE MASK
ROCKER KEY	YOU CAN MOVE THE ROCKER UP, DOWN, LEFT, AND RIGHT AND PRESS DOWN VERTICALLY FOR DIFFERENT OPERATIONS
LASER KEYSTROKE	PERFORM A LASER RANGING
EYEPIECE FOCUSING HAND WHEEL	THE FOCAL LENGTH OF THE EYEPIECE CAN BE ADJUSTED FLEXIBLY BY DIFFERENT USERS

PRODUCT PARAMETER

PARAMETER	PARAMETER
DETECTOR TYPE	UNCOOLED FPA
DETECTOR SPECIFICATION	640X512@12μm
OPERATING BAND	8~12μm
FRAME FREQUENCY	50Hz
TEMPERATURE SENSITIVITY	< 40mk@300K
INFRARED LENS FOCAL LENGTH	75mm(F# 1.0)
FOCUSING MODE	ELECTRIC MODULATION
FIELD ANGLE	5.9° × 4.7°
ELECTRON DOUBLING	1~4 TIMES
POLARITY	BLACK HEAT/WHITE HEAT/FALSE COLOR
LOW-LIGHT IMAGING	
DETECTOR	ULTRA LOW LIGHT COLOR CMOS
RESOLUTION	1920X1080
FOCAL LENGTH OF LENS	50mm
ELECTRON DOUBLING	1-16 TIMES
CHARACTERISTIC	WIDE DYNAMIC, 3D NOISE REDUCTION, AUTOMATIC SHUTTER

EYEPIECE DISPLAY SYSTEM	
DISPLAY	2× (1024×768) 0.5' OLED
MAGNIFICATION	12× (ADJUSTABLE VIEWING DEGREE)
LASER RANGING	
OPERATING BAND	905NM(EYE SAFETY)
RANGING RANGE	20m-3000m
RANGING ACCURACY	±1m
RANGING EFFICIENCY	>98%
BDII SATELLITE POSITIONING	
POSITIONING ACCURACY	CEP<1m
ELECTRONIC COMPASS	AZIMUTH ACCURACY:< 0.8° (RMS) PITCH ANGLE:<0.3° (RMS)
VIDEO RECORDING	
PHOTO SPECIFICATION	JPEG

VIDEO SPECIFICATION	MP4
RECORDING CAPACITY	32GB
INTERFACE	HIGH SPEED USB 2.0, ANALOG VIDEO
ENVIRONMENTAL PARAMETER	
PROTECTION CLASS	IP66
SERVICE TEMPERATURE RANGE	-30°C~+55°C
STORAGE TEMPERATURE RANGE	-40°C~+65°C
HUMIDITY	5% TO 95%(NON-CONDENSING)
PHYSICAL PARAMETER	
MACHINE WEIGHT	~2.0KG (INCLUDING BATTERY AND HAND STRAP)
SIZE (MM)	253(L)X242(W)X97(H)
MOUNTING INTERFACE	1/4' STANDARD TRIPOD.

PRODUCT DISPLAY







