

**TFN**

TD70B

# BINOCULAR FUSION THERMAL IMAGER

SMALL SIZE, EASY TO CARRY AND USE, GOOD ENVIRONMENTAL  
ADAPTABILITY



# PRODUCT CHARACTERISTICS

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PORTABLE AND  
LIGHT



GPS



ELECTRONIC  
COMPASS



INTEGRATED  
TECHNOLOGY



INFRARED  
THERMAL  
IMAGER



MONITORING AND  
IDENTIFICATION

## APPLICATION FIELD

THE THERMAL IMAGER IS CONVENIENT FOR ONE PERSON TO CARRY FORWARD OBSERVATION, AND IS ALSO SUITABLE FOR FIXED OBSERVATION STATIONS TO SET UP OBSERVATION, AND TO OBSERVE, TAKE PHOTOS AND VIDEO OF THE TARGET DAY AND NIGHT. IT CAN BE WIDELY USED IN PATROL, INVESTIGATION, LAW ENFORCEMENT, ANTI-SMUGGLING, DRUG CONTROL, FOREST FIRE PREVENTION AND EMERGENCY SEARCH AND RESCUE AND OTHER OCCASIONS.



# FOUR MODES

INFRARED MODE, LOW LIGHT MODE, DUAL LIGHT FUSION,  
PICTURE IN PICTURE MODE



INFRARED MODE



LOW LIGHT MODE



DUAL OPTICAL FUSION



PICTURE IN PICTURE MODE

IMAGE EFFECT

# FIVE COLOR PALETTES

RAINBOW IRON RED COLD BLACK HOT WHITE HOT



RAINBOW



IRON RED



COOL COLOUR



BLACK HEAT



INCANDESCENCE

## DEFINITION OF RANGE CONDITIONS FOR THIS RANGE TELESCOPE SERIES

- (1) THE MEASUREMENT TARGET HAS MODERATE REFLECTIVITY: SUCH AS THE WALL OF A BUILDING.
- (2) THE REFLECTOR OF THE MEASUREMENT TARGET IS PERPENDICULAR TO THE LASER EMISSION DIRECTION.
- (3) THE MEASURED WEATHER IS CLEAR BUT NOT IN DIRECT SUNLIGHT.
- (4) THE AREA OF THE REFLECTING SURFACE IS NOT LESS THAN 2M\*2M.



# PRODUCT ARCHITECTURE

## 1. STRUCTURE INTRODUCTION



LOW-LIGHT CAMERA



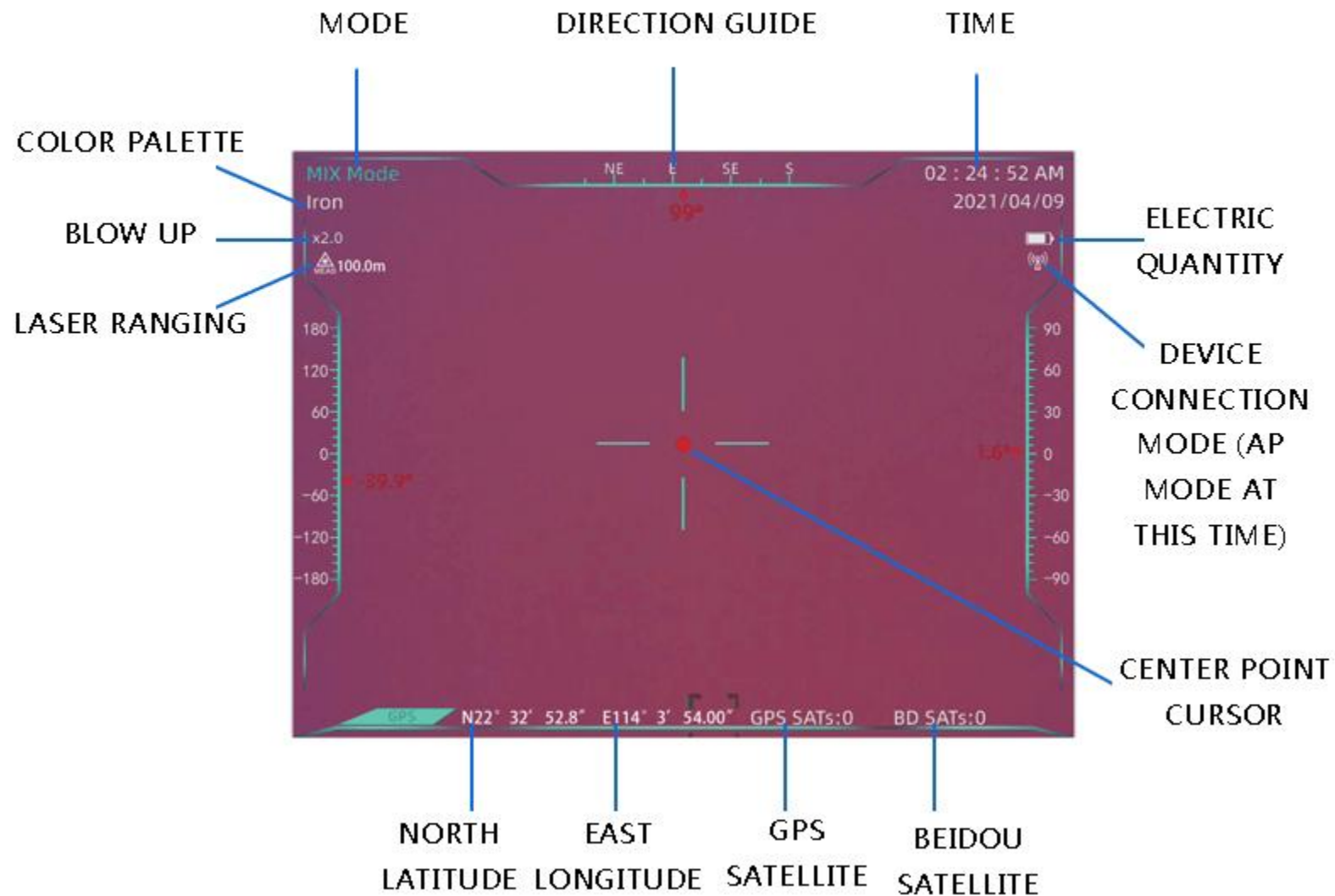
BATTERY HOLDER

INFRARED THERMAL IMAGE SENSOR





## 2. THE CONTENT DESCRIPTION IS DISPLAYED



### 3. CABLE DESCRIPTION

CVBS OUTPUT PLUG



## PRODUCT PARAMETER

INFRARED	
MODEL NUMBER	TD70B
DETECTOR TYPE	AMORPHOUS SILICON UNCOOLED INFRARED FOCAL PLANE
RESOLUTION	384x288
PIXEL SIZE	17 $\mu$ m
FIELD ANGLE	7.5° × 5.6°
OPERATING BAND	8~14 $\mu$ m
NETD	<50mk@25°C, @f/1.0
FOCUS DISTANCE	50mm
FRAME RATE	≤50Hz
FOCUSING MODE	ELECTRIC FOCUSING
DETECTION RANGE	
CHARACTER (1.7m×0.5m×0.3m)	3333 M
VEHICLE (4.5m×2.0m×1.5m)	8823 M
RECOGNITION DISTANCE	
CHARACTER (1.7m×0.5m×0.3m)	833 M
VEHICLE (4.5m×2.0m×1.5m)	2205 M
GLIMMER	
DETECTOR TYPE	ULTRA LOW ILLUMINATION CMOS
RESOLUTION	1920 × 1080
PIXEL SIZE	4.0 $\mu$ m
FOCUS DISTANCE	35mm
FRAME RATE	≤30Hz
FOCUSING MODE	NON-FOCUSING
REVEAL	



DISPLAY SCREEN TYPE	OLED
RESOLUTION	1024x768
DISPLAY SIZE	0.39INCH
DISPLAY MODE	0.39 INCH INFRARED/LOW LIGHT/DUAL LIGHT FUSION/PICTURE IN PICTURE
ELECTRON DOUBLING	1X /2X /4X
VISIBILITY CONTROL	±4SD
COLOR PALETTE	RAINBOW, IRON RED, COOL COLOR, WHITE HEAT, BLACK HEAT
<b>OTHER FUNCTIONS</b>	
WIFI	2.4G IMAGE TRANSMISSION
ELECTRONIC COMPASS	SQUARE CORNER DISPLAY
ORIENTATION	GPS/BD
<b>STORE</b>	
CAPACITY	BUILT-IN 16G EMMC(NOTE: THE AVAILABLE STORAGE CAPACITY IS LESS THAN THIS VALUE, BECAUSE THE SYSTEM SOFTWARE TAKES UP SOME SPACE)
TAKE A PICTURE	SUPPORT
VIDEO RECORDING	SUPPORT
PHOTO/VIDEO FORMAT	JPG/MP4
<b>PORT</b>	
CVBS OUTPUT	PAL VIDEO OUTPUT
USB INTERFACE	EXPORT PICTURES AND VIDEOS
EXTERNAL POWER SUPPLY	DC12/ 1A
<b>POWER SOURCE</b>	
REMOVABLE RECHARGEABLE LITHIUM BATTERY	2000MAHX4(BATTERY MODEL 18650)
BATTERY CHARGING MODE	SEPARATE CHARGING STAND
OVERALL POWER CONSUMPTION	≤6W
ENDURANCE TIME	≥4 HOURS
<b>WORKING/STORAGE ENVIRONMENT</b>	
OPERATING TEMPERATURE	-20°Cto +50°C
STORAGE TEMPERATURE	-30°Cto+70°C
IMPACT	≤30g
PROTECTION CLASS	IP54
<b>OVERALL DIMENSIONS/WEIGHT</b>	
OVERALL DIMENSION	192.8mmx86.9mmx189.6mm
WEIGHT	1.58KG(BATTERY INCLUDED)
<b>RANGING</b>	
RANGING RANGE	10M -2500M
RANGING ACCURACY	<400M, ±1M; >400M, 0.4%

PRODUCT  
DISPLAY









