

HRS

# MOLE

## INDIGENOUS REMOTE SURVEILLANCE AND RECONNAISSANCE ROBOT

HRS MOLE IS A COMPACT, RAPID-DEPLOYMENT REMOTELY CONTROLLED RECONNAISSANCE & SURVEILLANCE ROBOT FOR IDENTIFYING, MONITORING AND TRACKING INTRUDERS & THREATS. WHEN DEPLOYED IN A CONFLICT AREA, IT CAN DETECT THE PRESENCE OF ENEMY COMBATANTS, LIKE TERRORISTS HOLDING PEOPLE HOSTAGE — AND TRANSMIT PICTURES OF ENEMIES REAL-TIME — TO A RECEIVER PLACED FAR AWAY FROM THE CONFLICT ZONE. THIS CAN HELP SECURITY FORCES GET AN IDEA OF THE DANGER INSIDE WITHOUT RISKING THE LIFE OF A COMMANDO.

THE SIZE OF A SODA CAN, IT WORKS LIKE “EYES & EARS” OF SECURITY FORCES IN A HOSTAGE OR TERROR SITUATION. MOLE CAN BE DEPLOYED SIMPLY BY THROWING IT ACROSS INTO A ROOM OR AREA WHERE THE ENEMY IS LOCATED. IT CAN CAPTURE AND TRANSMIT VIDEO FEEDBACK TO THE CENTRAL LOCATION.

## FEATURES AT A GLANCE



1. ARTIFICIAL INTELLIGENCE CAPABILITIES
2. VISION GUIDED NAVIGATION SYSTEM
3. RUGGED AND COMPACT DESIGN
4. REMOTELY CONTROLLABLE THROUGH AN OPERATOR CONTROL UNIT (OCU)
5. CAN BE DEPLOYED THROUGH A GLASS WINDOW, OVER A WALL OR SIMPLY ROLLED OVER THE STAIRS IN ORDER TO ACCESS THE DESIRED LOCATION
6. ABILITY TO VIEW IN DARK
7. FIRE AND WATER RESISTANT

INDIA'S ANSWER TO GLOBAL TERRORISM



A product of



**HI-TECHROBOTICS SYSTEMZ LTD.**  
EVOLUTION THROUGH INNOVATION

## PRODUCT SPECIFICATIONS

### ROBOT

#### ARTIFICIAL INTELLIGENCE CAPABILITIES

- TARGET DIRECT VISION (TDV) NAVIGATION
- TARGET TRACKING CAPABILITY
- 360 DEGREE VIEWING CAPABILITY

#### WIRELESS TRANSMISSION

- DATA TRANSMISSION 2.4 GHZ
- VIDEO TRANSMISSION 1.2 GHZ
- TRANSMISSION DISTANCE 150 M LOS RANGE.
- AUDIO SENSING RANGE UP TO 5 M

#### VIDEO

- DAY/NIGHT CCD CAMERA SENSOR
- NIGHT VISION RANGE UP TO 5 M
- VIEWING ANGLE 120 DEGREES

#### MECHANICAL

- SIZE: 200 MM LENGTH,  
120 MM WHEEL DIA.,  
70 MM SHELL DIA.
- WEIGHT < 1.8 POUNDS
- DROP SHOCK DISTANCE 5 M
- THROW SHOCK DISTANCE 5 M
- FIRE-RESISTANT & WATER PROOF
- TWO WHEELED DRIVE WITH SELF RIGHTING TAIL
- MAXIMUM SPEED 0.5 M/S
- MOTION ON ROUGH SURFACES UPTO 20 DEGREES INCLINED



### POWER

- RECHARGEABLE BATTERY PACK INSIDE THE ROBOT- NO NEED TO REMOVE THE BATTERY TO CHARGE
- OPERATION TIME 1 HR ON MISSION
- 3-4 HOURS CHARGING TIME THROUGH EXTERNAL CHARGER

### PORTABLE OPERATOR CONTROL UNIT (OCU)

- REAL TIME COLOR VIDEO FOOTAGE FROM THE ROBOT
- ROBOT MOBILITY CONTROL
- OCU & ROBOT BATTERY STATUS & COMMUNICATION LINK STATUS INDICATION
- OPERATION TIME 1.5 HR

