H.B.A. solutions for E.O.D.
Due to changes in the security climate and the increase of international terror on all fronts, the field of E.O.D. and dismantling explosive charges has become a crucial component in all security and defense forces, both military and police.
H.B.A. is the leading supplier to the Israeli Police, the I.D.F. and other countries around the world from establishment of robot fleet, modified vehicles and supplying professional equipment for a solitary sapper.

Our Integrative Package
Supply, management and operation of robot fleet.
Specially fitted vehicles including designated E.O.D. tools.
Sapper equipment, Total Containment Vessels and special needs.
Professional training for the novice and experienced E.O.D. technician.
Professional training for operation and maintenance of E.O.D. robots.

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Ramat Gan 52443 Israel
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Fax: +972-3-6722193

www.hba.co.il
The Remote ANDROS Wolverine is the workhorse robot that won’t quit until you do. This heavy-duty, all-terrain robot brings superior strength and manipulator dexterity to your longest, most intense missions.

Dimensions
- Height: 69” (1762 mm) with camera extender
- Width: 29” (737 mm)
- Length: 58” (1474 mm)
- Turning: Within the length of the vehicle
- Ground Clearance: 5.5” (140 mm)
- Weight: 810 lbs (368 kgs)

Mobility
- Method: 6 wheels with individual drive motors
- Removable tracks & “Free-wheel” mode
- Slope: 45˚
- Speed: 0 to 2 mph (0 to 3.22 kph)
- Traverse: Openings up to 19” (482 mm)
- Turning: Within the length of the vehicle

Manipulator
- Variable speed control for precision
- Dual sided, quick-change accessory mounting system
- Torso Rotate +/- 170˚ from center
- Shoulder 210°
- Elbow 210°
- Wrist 210°
- Wrist extend 8” (203 mm)
- Grip rotate 360˚ continuous
- Gripper 0” to 8” open/close (0 to 203 mm)
- 0 to 50 lbs pressure (0 to 23 kgs)
- Lifting 100 lbs at 18” (45 kgs @ 457 mm)
- 60 lbs at full extension (27 kgs @ full ext.)
- Vertical reach 109” (2768 mm)
- Horizontal reach 71” (1805 mm) from front of vehicle

Audio Visual
- Cameras:
  - Surveillance: Color Camera with Low Light switching Capability
  - Auto/Manual Focus and Iris
  - 80 watt adjustable halogen light with detachable IR lens
  - Motorized camera extender
- Arm:
  - Color camera with Auto/Manual focus
  - Auto/Manual Iris
  - Manually adjustable tilt
  - 80 watt adjustable halogen light
  - Manual 40:1 Zoom
- Optional Arm Pan & Tilt Camera
- Picture in Picture display with camera selection switch
- Joystick control for easy navigation
- Heavy duty, portable, weather resistant
- Includes 50 amp-hr, 12VDC battery and 110VAC smart charger/powersupply
- Operates on either 12VDC battery or GFI 110 or 220 VAC power cord
- Microphone, speaker, and volume control
- 38 lbs, 10” x 23” x 18” (W/H/D)

Environmental
- Sealed weather resistant enclosure
- Wet or dry surfaces
- All terrain

Electrical
- 7 Isolated cabling circuits: 24VDC
- Power Supply: 24VDC spiral-cell Battery Pack
- JAUS Compliant
- 1/4 Turn Connectors: For easy connect, disconnect
- Data Links: Interchangeable Fiber Optic Cable Reel, RF Analog/Hybrid system, or Hard-line cable reel system
- 1/5 days of operator/maintenance training in Clinton, TN
- One year parts & labor warranty.

Operator Control Unit (required)
- Removable switchbox for direct connection to the robot
- 15 in. (380 mm) LCD monitor with daylight readable, Anti Glare Screen
- Picture in Picture display with camera selection switch
- Graphic display Vehicle and Console battery condition, Camera setup functions, and Sensor Feedback
- Video and audio output for event recording and optional head set display
- Joystick control for easy navigation
- Removable Key Firing Circuit System
- Heavy duty, portable, weather resistant
- Includes 50 amp-hr, 12VDC battery and 110VAC smart charger/powersupply
- Operates on either 12VDC battery or GFI 110 or 220 VAC power cord
- Microphone, speaker, and volume control
- 38 lbs, 10” x 23” x 18” (W/H/D)

* One of the control link options must be purchased.