Dynamic Homeland Security™ designs, develops and custom-builds sophisticated monitoring & surveillance solutions for mobile and stationary applications, which are capable of monitoring infiltration and gathering real-time visual intelligence in cities as well as in remote and hostile environments.

The monitoring & surveillance systems which can combine Special Multi-Sensor Heads, Day Light and Infra Red Cameras and Powerful Radar Systems with the necessary customized software, offer a highly effective integrated daytime observation platform that delivers performance under the most exacting conditions.

The important areas of application include:
- Border Security
- Homeland Security
- Military Applications
- Coast Lines, Harbours, Ports
- Airports
- Supervision of Critical Infrastructure like Oil/Refineries and Nuclear Power Plants
- National Resources Conservation like Forests
- High Traffic Areas within Cities
- Public Gatherings

Dynamic® Rakshak

Dynamatic® Rakshak is a unique Mobile Surveillance vehicle (SSV) developed for India’s Defence Forces, which is capable of monitoring infiltration on the country’s borders, as well as providing real-time Visual Intelligence within cities. The Rakshak is a 4x4 wheel drive vehicle specially built for deployment on any kind of terrain, and, is equipped with a sophisticated surveillance system including Day Light Camera, Infra Red Camera and Laser Range Finder, capable of detecting, scanning and recording in day-night conditions. Its ergonomicly designed interior provides the operating crew with comfort in addition to safety.

Technical Specifications

- **Optics**
  - Thermal Camera: 640x480 pixel Sensitivity 30mK, Automatic Gain Control, 11mm, Standby to Ready Heater, <1 mm, Digital Detail Enhancement
  - Detection Range: Human Target: 10 km, Recognition Range: 5 km
- **Day Light Camera with CCD Device & Laser Range Finder**
  - Laser Range Finder: Eye Safe, Sensor, Range: 5m, Range: 80 m – 21 km
  - Day Light LCC Camera: with Motorized Zoom Lens, Resolution, Digital zoom 12x, Approx 800,000 Pixels
- **Stabilized Pan/Tilt Head**
  - New Generation, Servo Controlled, 3 Axes, High Precision, Pan/Tilt Stabilized by Optical Gyros
- **Digital Magnetic Compass**
  - This feature helps in Auto Nortthing. The position of the selected target is shown according to the defined coordinates, either as Latitude/Longitude or Indian Grid Reference System, through WASS enabled software.

Electro-Pneumatic Mast

- Telescopic Construction
- Extended Height: 5.5 mtrs Above Ground Level
- Operational Stability for Wind Speed of 80 kph
- Payload Capacity: 60 kgs

DVR Unit

System is provided for recording of videos and pictures by DVR recorder PDR-220AD

Software Functional Features

- **Panorama Mode** (Selection of Interest Points)
- **Alarm Mode** (Selection of the Visual)
- **Digital And Software Integration** of Data
- **Creation of Photographs and Video Recording including states of Alarms**
- **Auto Tracking of Selected Target**
- **Auto Manual Focus**
- **Optical & Digital Zoom**
- **Automatic Gain Control & White Balance**

Compatibility with Military and Environmental Standards

The MSV is designed to perform in extreme climatic conditions, including a temperature range of 40° to 45°C and Relative Humidity of up to 95%. Other features include:
- **The Display Unit Comforms to MIL Standards**
- **Power Supply** - Silent DG set 7.5 KVA with Back up UPS for 4 to 5 hours
- **Full Air-Conditioned to maintain a minimum cabin temperature of 15 Degree Centigrade**
- **In-Built Heater**

Dynamic® Rakshak can display both cameras (night & day) on the same screen simultaneously during Surveillance as well as Scanning mode.