WG- VTRACK is a DSP based product that delivers multiple intelligent video analytics capabilities in one small package.

**INTRODUCTION**
Fixed security cameras were a cost-effective solution to keep large areas under 24/7 video surveillance. Addition of a video recorder makes it an automated system. However, a short focal-length lens that covers a wide area yields video that is too pixilated to zoom in and see the detail. Also, it requires an operator. The Tracker allows you to capture the object motion video with or without any attendance. It watches the wide-angle video, just like an electronic security guard. When there is detected motion in the field of view, it automatically zooms in and looks at the "motion". In fact, the Tracker can identify multiple targets and sequentially move from object to object.

It is designed for today’s demanding security environment to obtain information through state of art digital image processing technologies and thereby provides features which are truly amazing. Tracker is versatile, scalable and can be tailored to meet the unique demands of the CCTV industry. The Tracker’s unique video analytics algorithms have multiple applications for Business, Industrial, Commercial, Government, Military etc.

**Features of WG-VTRACK**
- Full unmanned PTZ control (Pan, Tilt and Zoom)
- Automatic PTZ/Camera calibration
- NTSC/PAL video formats
- Multiple target tracking (upto 30)
- Single/ Quad video input
- User definable exclusion zones
- User definable priority zones
- Alarm on Single/Multiple object motion detection
- Joystick control
- RTC interface for working and holiday scheduling
- Remote control or Joystick interface for parameter setting
- Power failure safe setting
- LED indications
- Password protection
- Video loop out to check input
- Vast menu for parameter setting
- Optional USB, keypad, audio codec interface

**Typical Applications**
- Motion Tracking
- Virtual Fencing
- Missing Object Detection
- Added Object Detection
- Edge Detection etc.

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Basic Setup:

Working:

1. Initially, the appropriate connections are made as specified.
2. Set the various device parameters and camera parameters using IR remote or keypad.
3. Calibrate the camera and the PTZ for the required Field of View.
4. The overview camera focuses on the entire FOV and checks for any motion occurrence.
5. As the motion is detected, the PTZ is given the signal and it zooms in that particular area.

Thus, the area of concern i.e. the area in which the motion is taking place can be focused on.

Interface Diagram: