**IMS3: Dual Cam**
- Image Based High Accurate Mobile Mapping System (MMS)

- Easy Operation & Simple Calibration without IMU or Laser
- Captured and process Images quickly and efficiently.
- Relative accuracy less than 1 cm within a distance of 6 meter from the camera. Achieve Centimeter level Absolute Accuracy including urban & covered areas. Accuracy appreciated by Japanese Mapping Authority.

**[IL Shooter3]: Control Cameras and Sensors**
ILShooter3 : Data Acquisition software

**[IL CV Maker3] Quick Dual CV Analysis**
1) Extract Feature Points Automatically in both the camera Imagery.
2) Feature Point Tracking from both Cameras and in between the Two Cameras
3) Integrating Tracking Data with Sensor Data
4) Calculating 3D Position and Posture of the two Cameras.

**Simple Composition & Robust Configuration**
- Ladybug 3 (camera)
- ×2 set
- Accelerometer
- Standard GPS
- Desktop PC (Controller) / HDD
- High Accurate GPS
- Mounting Kit
- Other GPS/RTK/IMU can integrated with IMS3

**Surrounding Camera**
- Pixel: CCD 1/1.8” × 6
- Resolution: 2.0 MPX: 1600(H) × 1200(V) PIXEL × 6 Max 5400 × 2700 PIXEL as 360 degree Imagery
- A/D Converter: 12-bit ADC
- Frame Rate: Max 16 FPS (in case of JPEG Compress)
- Temperature: 0℃～45℃
- Size: 134(D) × 141(H)mm
- Weight: 2,416g

**Accelerometer**
- Axis: 3 axis
- Range: ±1.7 G
- Sensitivity: 1200 mV/G
- 0 Point Drift: ±0.03 G (0～70℃)
- Temperature: −40～+85℃
- Size: 44.5(W) × 27(D) × 20(H)mm
- Weight: 23g + Cable 23g, Total 46g

**GPS**
- Receiver: 12 Satellite Parallel Receive
- Accuracy(WAAS): 3m (RMS 95% typ)
- 1PPS Accuracy: 1Hz Pals.; +/- 1 μ Sec
- Temperature: −30～+80℃ (Antenna)
- Size: 61(D) × 19.5(H)mm

**IMS3 Controller PC for Capturing**
- OS: Windows®7 (32bit)
- CPU: Intel® Core i7 or more
- RAM: 4GB or more
- Graphics: NVIDIA ® GeForce GTS250 or more VRAM 256MB or more
- Board: IEEE1394a x 2 (Camera connection) e-SATA(USB3.0) x 2 (HDD connection) USB2.0 x 3 (Sensor, GPS, USB key)

**PC Specification for CV Calculation by ILCVMaker3**
- OS: Windows®7 (64bit)
- CPU: Intel® Core i7 or more
- RAM: 8GB or more
- Graphics: OpenGL1.2 or more- NVIDIA ® GeForce GTS250 or more VRAM 256MB or more
- HDD: 100GB or more (including work space)
- Board: USB × 1 (for USB Key)
Software & Tools for DualCam
Unique Application and Solution - IMS3:Dual Cam

Map on 3D for Generating 2D/3D Detailed Maps

- Extract white lines and road edges automatically
- Unique interface to draw & edit on Imagery
- Output basic maps before detailed Maps

Guard rails, fences, and other objects can be drawn by manual.

Automatically extracted white lines are indicated on the image as 3D polygons.

Available to add, transform, and delete by manual.

Completing Basic Maps by AutoCAD™ to the Final Output

Output as Compatible FBX Format

Producing High Accurate 2D Detail Maps in short period

Active Link Vision (Real world on to your PC!)
- Creating 3D Space & Link GIS Data-
  - 360 degree Seamless Surrounding Image without Dead Hole
  - Indicating GIS Data on the Image as 3D Object
  - 3D Measurement can be performed within the frame and across
  - Simulation is available putting 3D Models onto CV Image
  - Development or Customization is possible by using SDK

Digital Street Scanner / Ortho Tool & 3DPCCI
- Producing High Accurate Image Based Ortho Maps Automatically -

DSS
Available to analyze road slope and angle of building surface automatically in CV image to produce continuous high resolution Ortho maps of road surface and side buildings after Ortho graphic projection.

3DPCCI (3D Model)
Extract Polygons & Paste Texture using CV imagery

Application Lineup

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