What's Virtual 360™ AVM?

Virtual 360™ AVM is a system that stitching 4~6 wide angle cameras image into a bird's-eye view image to provide an entire image surrounding the vehicle thus to cover blind spots when driving and parking.

Why need to use Virtual 360™ AVM?

ZERO blind spots, Less accidents, Easy-to-see, Easy-to-understand

There are more than 1 million people die in traffic accidents every year all over the world, accords to the UN’s latest statistics report. With the increasing car numbers, the traffic jams and hard to parking is quite common phenomenon. Meantime, the driver is with limited sight to check the surrounding areas of the vehicle result in increasing risk of accidents when driving in urban traffic, on highways, or parking. To assist the driver to drive more safely and reduce the risk of traffic accident, Autoequips has released the Virtual360™ Around View monitoring system to the market since 2011 which aim to bring a full and direct bird's-eye view to cover every surrounding corners of the vehicle to the driver.

What's the function?

The world's FIRST launch of 6 camera input Virtual 360™ AVM system

6 Channel AVM

Built-in control box
4 Channel AVM

Option 1
Built-in control box

Option 2
Existing monitor compatible

270° AVM
Existing monitor compatible

- Both 8" Monitor type AVM and BOX type AVM are available
- Seamless Stitching, no blind spots in the juncture
- Ultra-wide angle high resolution CCD camera with IR, Anti-distortion function
- Fast, real-time image delivery accuracy
- Cover vehicle length up to 20m length 4-camera option vehicle length<10m, 6-camera option 8m<vehicle length<20M
- Video out for connecting external DVR for recording
- Customer is able to change the on-screen vehicle icon by themselves with our vehicle icon controller
- Box type AVM is compatible with any OEM monitor or PSVT monitors.
- Image can be off automatically when the vehicle speed is over 60km/hr (the speed can be customized)

Auto-Calibration

4 Key Benefits
- More Accuracy - With the use of mats with fixed dimensions and smaller calibration area, stitching accuracy is increased significantly.
- Less Space - No more drawing lines and calibration points on the floor! With fixed dimension mats, only a small area is needed for calibration.
- Less Time - Less measurements are required. Measurement data can also be saved and exported for other vehicles of the same model.
- Less Costs - It’s so simple, anyone can install. Save space, time and labour costs!

4 Simple Steps
- Step 1: Measure the vehicle dimension and find the reference points for calibration.
- Step 2: A total of 8 mats with 3 different dimensions are laid on the ground at the front, rear and sides of the vehicle to superimpose on the reference points.
- Step 3: Input the vehicle length and width into the hand-held device.
- Step 4: Press Enter, and Auto-Calibration takes only 60 seconds to process! It’s so simple, anyone can install the AVM!

How "Auto-Calibration" works

No challenge in calibration!
The world’s fastest and easiest Auto-calibration AVM, Calibrate your AVM in 5 minutes!
Why choose Virtual 360™ AVM?

- Industry / automotive standard
- The world’s First to launch 6 camera input Virtual 360TM to cover longer vehicle length(10~20M)
- The world’s fastest and easiest AUTO-Calibration around view monitoring system
- Customer Oriented, powerful customization ability
- Seamless stitching ensures no blind spots

Success story of Virtual 360™ AVM

Acknowledgement to Ring Automotive Limited.
This article is sited from http://www.route-one.net/issues/447/index.html#28/

Acknowledgement to Vision Techniques (UK) Limited.
This article is sited from http://www.vision-techniques.com/blog/ciwm-award-win-for-vt-overview/

<table>
<thead>
<tr>
<th>DM 80E</th>
<th>CM 30A</th>
<th>CB 717A</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; High Resolution Digital Monitor</td>
<td>Image type: 1/4 inch SONY CCD</td>
<td>Embedded hardware : DSP based</td>
</tr>
<tr>
<td>With built-in Control box</td>
<td>Lens: 1.2mm,F2.9,192° diagonal</td>
<td>Operation frequency : 800MHz</td>
</tr>
<tr>
<td>Weatherproof IP65</td>
<td>Wit wide View angle</td>
<td>4 Ch image input &amp; 1 Ch image output</td>
</tr>
<tr>
<td>4 or 6 Video inputs</td>
<td>IP68</td>
<td>IP68</td>
</tr>
</tbody>
</table>

Recommended options

- Image type: 1/4 Color CMOS camera
- Lens: 2.2mm, F2.0, 187° Horizontal
- Resolution: PAL 720(H)*576(V), NTSC 720(H)*480(V)
- CS 30A
- CS 30B
- CS 30N
- IP68

---

Top Vision.eu
Mobile Camera Systems