

**Yokowo develops increased production globally for the MicroAntenna  
(On-vehicle Short-mast AM/FM antenna)**

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**■ Summary**

Yokowo Co., Ltd. which is one of major on-vehicle antenna manufacturers, plans to strengthen globally its production system to be prepared for significant increase in orders of the Micro Antenna.

**■ Outline of "Micro Antenna"**

The MicroAntenna is an AM/FM on-vehicle antenna, which has a mast of 20cm in length. The Micro Antenna is with streamlined profile and much shorter mast, which requires 1m ordinarily, and assures equivalent or better performance against ordinary antennas.

We started development and release in 1994 ahead of other antenna manufacturers, and accumulating total of the volume of shipments to domestic auto manufacturers is over 3 million. It is No. 1 market share.

In overseas market, adoption by domestic auto manufacturers gets into full swing, and we anticipate adoption by overseas auto manufactures will be accelerated aftertime by our aggressive sales promotion.

**■ Our Future Plan**

The production of the Micro Antenna has been carried out in our Japan and Malaysia factories. Based upon recent increase in orders, we have strengthened production capacity in Malaysia, and will lay down a production line in China factory in July 2003. We are preparing to build a production system for total volume of 2.2 million annually and on-site production system along with customers' needs.

**[Plan for strengthening production capacity (As of September 2003)]**

<Japan> Tomioka Factory (Tomioka, Gunma) 1.2 million per year

<Malaysia> Malaysia Factory 0.5 million per year

<China> Dongguan Yokowo Car Components 0.5 million per year

In addition, as the Micro Antenna design allows to add GPS or/and Tell functions(s), we anticipate such combo antennas for Telematics market will increase our global market share to 6% (of 55 million production volume worldwide) by 2004 and the share will increase in later years.



Through such estimates for demand, we are preparing on-site production/delivery to meet on-site production/delivery needs and it is planned that our total production volume will reach 3.5 million per year.

By suitable-site production and with new combo antennas, we draw a plan to increase our Micro Antenna's competitiveness to assure the top share globally.

■ The Micro Antenna Characteristics

1. Durable thus maintenance-free since the mast adopts elastomeric material to be flexible. It is break-proof against exoteric stress caused by car washing or parking.
2. It is Self-contained Antenna. Thus, tuning processes against individual models are not required unlike glass antennas. This brings shorter development period and ease of cross development.
3. GPS/Tell antenna integration is feasible since the mast is adequately short.

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