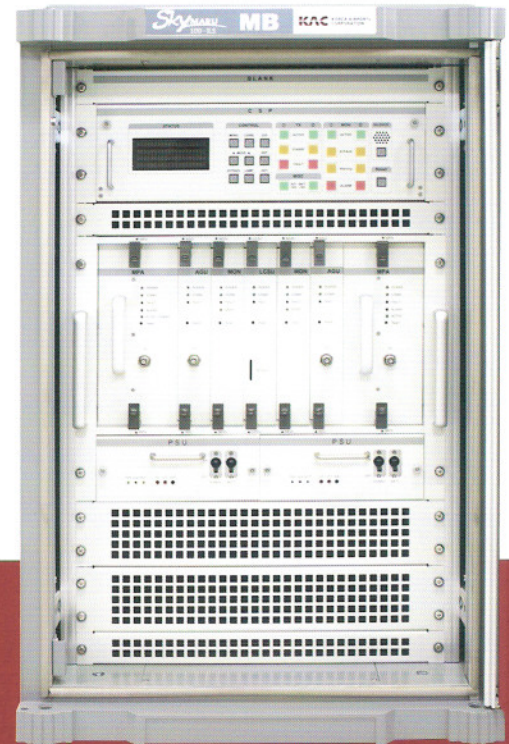


## Brief Description

MB of KAC made based on flexible modular concept. This means that this system adapted modern digital technology. Also we use to high speed micro processing & integrated Circuit device. KAC has many experiences about maintenance field. So KAC know well this system so we made it in March, 2009. Also, we are leaders in the design and implementation of all NAVAIDS system field and ultramodern technology. Finally, this system is fully compliant with ICAO Annex 10 & also FAA Order.



## SkyMARU 100-ILS Instrument Landing System

# MB

## Marker Beacon

### Graphic User Interface

- All Control through LMMS & RMMS
- All Monitoring through LMMS & RMMS
- Stable Control & Monitoring (Based on M/S Windows)

### High Speed Digital Control

- 32bit Microprocessor
- FPGA Based Digital Circuitry
- All 16bit A/D & D/A Control

### RF Path Stability

- All Solid Metal Shield
- Stable RF Signal Generation (By DDS Method)
- Unmatched Performance
- High Quality Signal Linearity

### Antenna System

- High Gain, Performance & Easy Maintenance
- Easy Installation
- High Quality Signal Linearity

### Power Supply System

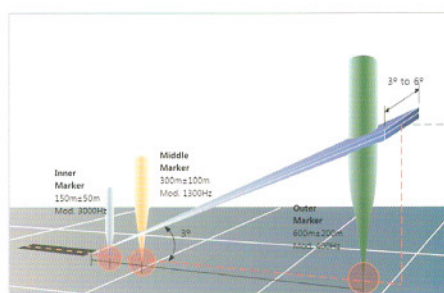
- Dual Redundant Power System
- Very High Efficiency
- All Unit Plug-In Type
- Booster Up(Voltage from BAT)

### Easy Maintenance

- Hot-Swap Control
- No Tuning or Adjustment for Card and Module Replacement
- Single RACK for All Card & Module Configuration

### Reliability

- Above MTBF 20,000 Hr
- Fully Compliant with ICAO Annex 10 & FAA Order
- Successfully Passed Flight Inspection



# MB

## Technical Specifications

### Transmitter

Frequency	75MHz
Frequency tolerance	±0.005%
Output power range	0.1 – 5W Adjustable(0.1W Step Adj)
Harmonic radiation	> 50dBm
Impedance	50 Ω
Spurious radiation	> 60dBm
Output power stability	±0.5dB

### Modulation

Modulation type	AM
Modulation alternatives	Keyed, Continuous, Off
Modulation frequency and identification	IM : 3000Hz (dot) MM : 1300 Hz(dash-dot) OM : 400 Hz(dash)
Signal period	Dots 90ms±2ms, dashes 450ms±10ms, spacing 90ms±2ms
Modulation depth	95% ± 4%(adjustable, 0.5% step)
Frequency tolerance	± 2.5 %
Total harmonic audio signal	< 8 %

### Remote & Local Control

Data Transmission Medium	Remote 2-wire line, 600 ohm
Data modulation Serial	FSK
Transmitter level	-10dBm ± 2dB
Receiver dynamic range	-10dBm... -34 dBm(RS232)
Monitor 1,2 communication	Serial Data Protocol