

# Technical information — about voice scrambling systems

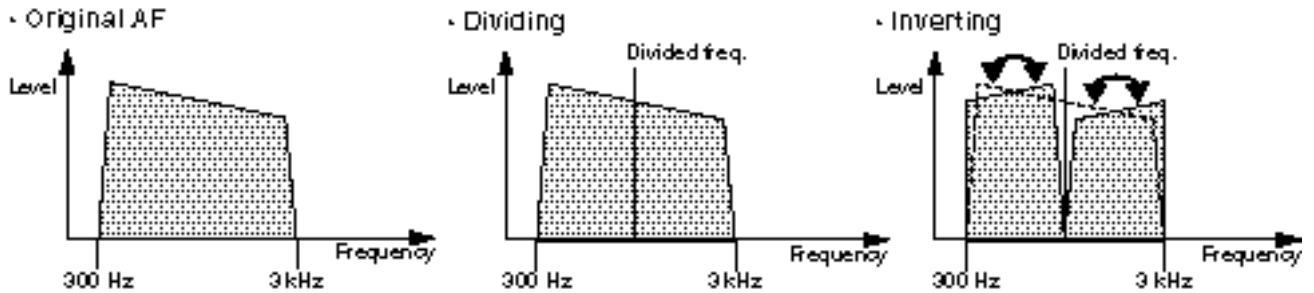
## Voice scrambling methods

The optional voice scrambler units, UT-109 and UT-110, for the IC-F3, F300, F30,\* F1000\* and F1600 series employ variable split and frequency inversion methods of voice scrambling. The UT-109 employs a non-rolling system and the UT-110 employs a rolling system. What is the difference between them? The following is for your reference.

\*Voice scrambling capabilities for these units are not fixed.

### Variable Split and Frequency Inversion

This is the scrambling system employed in the UT-109 and UT-110. The audio frequency band is divided at a specified frequency (divided frequency) and high and low audio frequencies in each band are inverted. The divided frequency is programmable with cloning.



### Difference between rolling and non-rolling types

The rolling type (in fact, hopping type is used for the UT-110) is an additional feature which provides higher communication security. It changes the divided frequency over a specified period.

