

Outline of Proposed Amendment to Ministerial Ordinance

1 Item

Partial amendment of the Ordinance for Enforcement of the Radio Act etc.

2 Scope of the amendment to ministerial ordinance

Ordinance for Enforcement of the Radio Act

Ordinance Regulating Radio Equipment

Ordinance for Technical Regulations Conformity Certification of Specified Radio Equipment

3 Reasons for amendment

Convenience Radio is established for simple administrative work and personal business, and it has been popularized in the small-power private radio system in recent years. The number of Convenience Radio has almost doubled in the past decade. In particular, the number of registered digital Convenience Radio increased more than 11-fold from 2011 to 2021.

Digital Convenience Radio is used not only for voice communications but also for data communications in the IoT. In recent years, there has been desired to eliminate dead zones inside and outside buildings.

Japan will amend the technical regulations for digital Convenience Radio operated automatically or by remote control considering these needs.

4 Outline of the amendment

Technical requirements of digital Convenience Radio operated automatically or by remote control. (Red underlined characters are amended)

	Registered Radio Station	Licensed Radio Station
		Relay operation
Frequency band	<u>351.03125MHz - 351.63125MHz</u>	<u>465.034375MHz - 465.153125MHz</u> 467MHz - 467.4MHz <u>468.796875MHz - 468.853125MHz</u>
Channel step	6.25kHz	
Occupied bandwidth	5.8kHz	
Antenna Power	5W or less (When using in the sky; 1W or less)	5W or less
Modulation method	RZ SSB, $\pi/4$ shift QPSK, 4FSK	
Communication Systems	Unidirectional communications system Simplex system Communication system for multiple destinations	<u>Semi-duplex communication system</u>
Allowable deviation of frequency	RZ SSB , 4FSK : ± 1.5 (Parts per million) $\pi/4$ shift QPSK : ± 0.9 (Parts per million)	
Spurious	1W or more : 2.5 μ W or less or 60 dB lower than the fundamental carrier wave power 1W or less : 25 μ W or less	
Carrier sense	Required	Not required
Prevention of misconnection	Identification code length is more than 36bits	
Fault detection function	<u>Required</u>	

5 Proposed date of entry into force

March, 2023