

## ID-1 Control Command Specifications

### Revision History

Draft History	Issuing Date	Rev No.	Model	Revised contents
First Draft	9 November 2002	Rev 1.2	G723.1	Initial documents prepared
Second Draft	29 May 2003	Rev 2.0	AMBE	<ul style="list-style-type: none"><li>• Series of commands are added and modified due to AMBE edition.</li><li>• Top page and the table of contents, revision history and the list of commands(P8-19) are revised.</li></ul>
Third Draft	29 September 2003	Rev 2.0	AMBE	<ul style="list-style-type: none"><li>• Revision history moved to the top page.</li><li>• Supplemental explanation is added to revised contents.</li></ul>

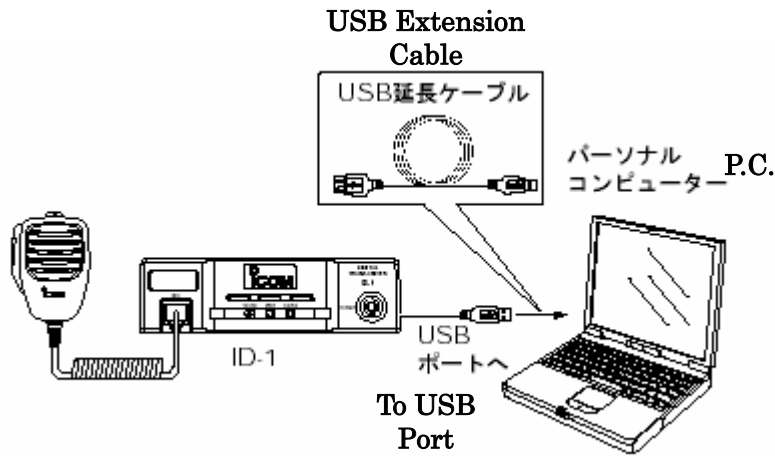
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## Connection to the PC:



The ID-1 is connected to the PC by the USB cable.

The ID-1 uses FTDI's USB serial conversion IC chip, and the ID-1 is recognized on the PC side as being connected to the COM port.

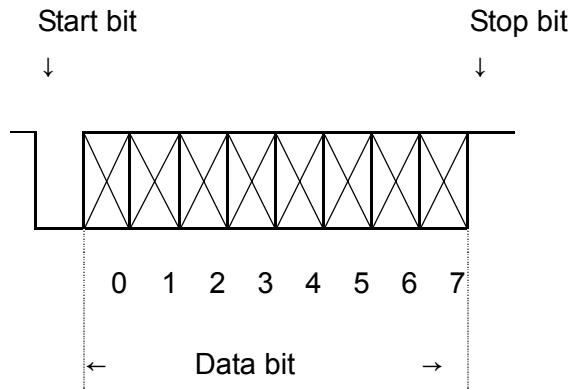
At the moment the ID-1 is connected to the PC, the USB serial conversion IC chip in the ID-1 carries out device assignment as a new COM port on the PC side.

The assignment of the new COM port sometimes differs depending on the PC, therefore it is necessary to confirm which COM port the assignment has been made to. On a Windows (98) OS system, this confirmation can be checked with the following process.

Open [Control Panel] → Click [System] → Click [Device Manager] → Click [Port]

## Communication Format:

### 1. The Format of a Byte Unit

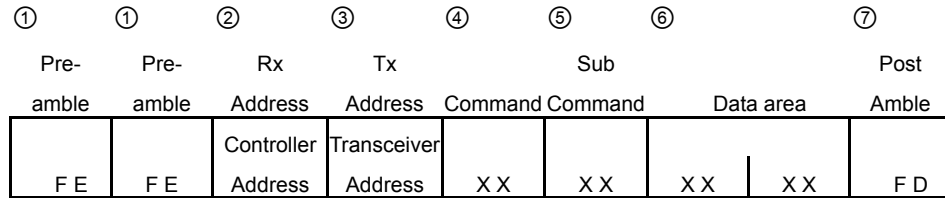


- Transfer Method  
Non-synchronized serial NRZ
- Structure of 1 Byte  
Start Bit = 1 bit, Data bit = 8 bits, No parity, Stop bit = 1 bit
- Transfer Speed  
19,200bps fixed

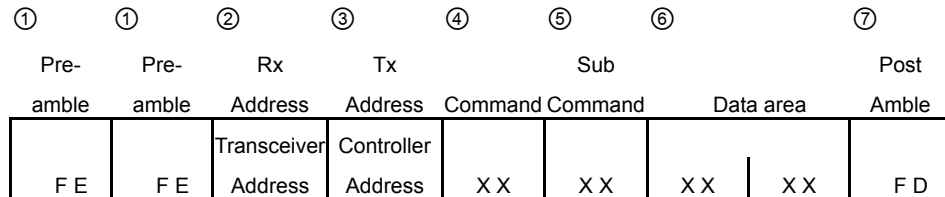
## 2. Command Format

- Basic Format

### Txr→Controller



### Controller→Txr



- ① Preamble : With the insertion of a synchronous code at the start of the data, and it uses a hexadecimal FE.
- ② Rx Address : The ID-1's address is set as 01 hex, and the controller's (control software) address uses hexadecimal 7F.
- ③ Tx Address : The ID-1's address is set as 01 hex, and the controller's (control software) address uses hexadecimal 7F.
- ④ Command : The functions that can be controlled are indicated as commands indicated in hex.
- ⑤ Sub-command : The supplement to the command that is indicated in hex. (Depending on the type of command, there are cases where the sub-command does not exist)
- ⑥ Data Area : This is the area that handles the frequency or call-sign data etc., and depending on the command, the data length can vary.
- ⑦ Post-amble : The code that indicates the end of the message, and it uses a hexadecimal FD.

### Caution:

When using this command format and a command operation that does not exist in these disclosed contents is performed, the specified product(s) of Icom incorporated may be damaged.