

LIVE MIXING CONSOLE **M-200i**

Telnet Reference

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Introduction

This manual describes the procedures for using Telnet to control the M-200i via a LAN (TCP/IP protocol).

For information regarding the M-200i itself, please refer to the M-200i Owner's Manual.

This manual is intended for users who are generally familiar with network issues. Refer to other available literature and documentation for more detailed information on computer terminology and the use and handling of computers.

The content herein is subject to alteration without prior notice.

Telnet Server Functions

The M-200i supports Telnet server functions.

Logging in from a computer that features Telnet client functionality permits remote operation of M-200i units.

Telnet Server Specifications

Connector	M-200i LAN connector
TCP port	8023
Control Mode	Character mode (character-at-a-time mode)
Echo Control	Remote echo
Termination Key	Processing reception CR, LF, or CR-LF Processing transmission CR-LF

Network settings

The computer and the M-200i must be connected on same network.



The network traffic where the M-200i is connected is too busy, the unit cannot operate properly.
Take counter measures as follows when necessary.

- Separate the network for the M-200i control from the others.
- Decrease the traffic amount of broadcast packet.
- Decrease the traffic amount addressed to the M-200i unit like PING.

Setting the M-200i's Network

You can set the IP address for the M-200i unit using one of following methods.

- Use fixed IP address
- Use DHCP

You can check the current IP address of the M-200i unit on the NETWORK screen or the LAN INFORMATION screen.

Using the Fixed IP Address

Set the M-200i's LAN as follows. Refer to the owner's manual for steps of the setting.

CONFIGURE	MANUALLY
IP ADDRESS	As necessary (follow the network to connect)
SUBNET MASK	As necessary (follow the network to connect)

Using DHCP

Set the M-200i's LAN as follows. Refer to the owner's manual for steps of the setting.

CONFIGURE	USING DHCP
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Setting the Computer Network

Under surveillance of your network administrator, set IP address, subnet mask and gateway.

If the network cannot be connected properly, check followings.

- Check that the IP address is not overlapped by another device.
- Check that the subnet mask and gateway setting are properly set.
- Check that firewall or other securities are properly set on the computer.

Overview of commands

The commands for Telnet remote controls are common with RS-232C commands except for the control codes (stx, ack). Refer to "V-Mixer RS-232C Reference" for details of the commands.

The control codes of the RS-232C commands should be converted as follows.

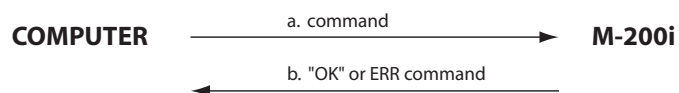
Codes	Hexadecimal Expression	Processing
stx	0x02	Delete
ack	0x06	Convert to the text "OK"

Communication Protocol

Depending on the command, there are two types of communication protocols between the control computer and the M-200i

● When specifying an operation or setting for the M-200i

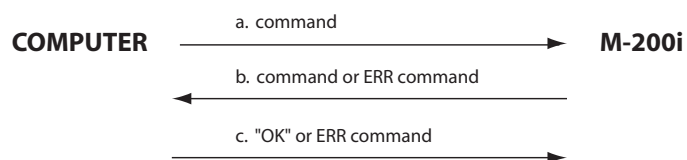
This type corresponds to the "Control commands". These commands use the procedure shown in the following diagram.



- Transmit the command from the computer to the M-200i.
- The M-200i will output "OK" if the command was received correctly, or an ERR command in case of invalid reception.

● To learn the settings of the M-200i

This type corresponds to the "Request commands". Commands used to check the status of a setting in the M-200i use the following procedure.



- Transmit the command from the computer to the M-200i.
- If the M-200i receives the command correctly, it will send back a command containing the information that was requested. If the command was not received correctly, an ERR command will be sent back.
- If the output of the M-200i was received correctly, an "OK" will be sent back. (* This "OK" can be omitted.)

Special Purpose Commands

Followings are the special purpose commands to be transmitted from the computer to the M-200i.

Commands	Processing
Text "OK"	Send "ack" to the server
Text "QUIT"	Terminate connection

- You can use capital letters or small letters.