

V-40HD MULTI-FORMAT VIDEO SWITCHER

Remote Control Guide

The V-40HD supports remote control via MIDI and RS-232C. This document describes settings for remote control



Copyright © 2012 ROLAND CORPORATION

All rights reserved. No part of this publication may be reproduced in any form without the written permission of ROLAND CORPORATION.

- * Roland is either registered trademark or trademark of Roland Corporation in the United States and/or other countries.
- * All product names mentioned in this document are trademarks or registered trademarks of their respective owners.

Contents

Remote Controlling via MIDI	3
MIDI Control Modes of the V-40HD	3
MIDI Menu of the V-40HD	4
MIDI Implementation	5
Messages Transmitted and Received in Standard MIDI Mode.....	5
Messages Transmitted in V-LINK Master Mode	8
Messages Received in V-LINK Slave Mode	9
Messages Received in MVC Mode.....	11
Appendices	13
RS-232C Command Reference.....	14
Specification of the RS-232C Jack	14
Overview of Commands.....	14
Commands Transmitted from an External Device	15
Data Transmitted from the V-800HD.....	16

Remote Controlling via MIDI

MIDI Control Modes of the V-40HD

These are the MIDI control modes for the V-40HD. Select one mode best suited for your connected device or your application.

Standard MIDI mode

This is the mode for remote controlling the V-40HD from an external MIDI device (like a keyboard) or linking 2 units of the V-40HD.

V-LINK Master mode

This is the mode for remote controlling an external V-LINK device from the V-40HD. In this mode, the V-40HD works as the MIDI master device.

V-LINK Slave mode

This is the mode for remote controlling V-40HD from an external V-LINK device. In this mode, the V-40HD works as a slave device.

What is V-LINK

V-LINK is a feature for performing video synchronized to music using MIDI. The V-LINK feature provides a quick and simple way to establish a link with a compatible device.

MVC Slave mode

This is the mode for remote controlling the V-40HD from an external MVC (MIDI Visual Control) device. In this mode, the V-40HD works as a slave device.

What is MVC (MIDI Visual Control)

MIDI Visual Control is a feature that uses MIDI to link visual expression to a musical performance. Connecting a musical instrument that supports MVC via MIDI, you can remotely control the V-40HD in accordance with the musical performances.

MIDI Menu of the V-40HD

You can make V-40HD MIDI settings in the System menu. Select [MIDI] > [STATUS] to select one of the MIDI control modes.

- OFF
- Native
- V-Link Master
- V-Link Slave
- MVC Slave

MEMO

You cannot select V-Link Slave or MVC from the menu. If the V-800HD receives V-LINK ON or MVC ON message from an external device while it's in standard MIDI mode, the mode switches automatically. Reception of V-LINK OFF or MVC OFF message also switches the mode automatically to standard MIDI mode.

When [On] is selected for [Through Output], the received signal coming in from MIDI IN jack will be output from MIDI OUT jack without any alteration. V-40HD exclusive messages (SYSEX) will not be output. When you are not using MIDI, turn it to [Off].

Using in standard MIDI mode

When you use in standard MIDI mode, select [Native] in [Status]. Also match the MIDI channel with the connected MIDI device.

Using in V-LINK Master mode

When you use in V-LINK master mode, select [V-LINK Master] in [Status]. The MIDI device ID of the V-40HD will be [10H].

Using in V-LINK Slave mode

When you use in V-LINK slave mode, send V-LINK ON message while the V-40HD is in standard MIDI mode. The MIDI device ID of the V-40HD will be [10H].

Using in MVC Slave mode

When you use in MVC slave mode, send MIDI Visual Control ON message while the V-40HD is in standard MIDI mode. The MIDI device ID of the V-40HD will be [00H].

cf.

Refer to "MIDI Implementations" from next page for commands in each mode.

MIDI Implementation

Messages Transmitted and Received in Standard MIDI Mode

Control Change

Source Select

Status	2nd Byte	3rd Byte
Bn	0EH	0kH

n = MIDI Channel Number

k = Source : 00H-03H(HDMI, RGB/Component, Composite, Shared Input)

PVW Select

Status	2nd Byte	3rd Byte
Bn	1EH	0kH

n = MIDI Channel Number

k = Output Select : 00H-03H(INPUT, PST, PGM, DSK)

A-BUS/PGM Cross-point Select

Status	2nd Byte	3rd Byte
BnH	0CH	0kH

n = MIDI Channel Number 0H-FH (ch.1 - ch.16)

k = A-BUS/PGM Cross-point button number : 00H-04H (ch.1 - Background)

B-BUS/PST Cross-point Select

Status	2nd Byte	3rd Byte
BnH	0DH	0kH

n = MIDI Channel Number

k = B-BUS/PST Cross-point button number : 00H-04H (ch.1 - Background)

DSK Source Channel Select

Status	2nd Byte	3rd Byte
BnH	10H	0kH

n = MIDI Channel Number

k = DSK Source Channel Number : 00H-03H (ch.1 - ch.4)

Transition Time Select

Status	2nd Byte	3rd Byte
BnH	11H	kkH

n = MIDI Channel Number

kk = Transition Time : 00H-64H (0.0sec - 10.0sec)

Wipe Pattern Select

Status	2nd Byte	3rd Byte
BnH	12H	0kH

n = MIDI Channel Number

k = Wipe Pattern : 00H-03H (1, 2, CUT, MIX)

Output Fade Button

Status	2nd Byte	3rd Byte
BnH	13H	7FH

n = MIDI Channel Number

Output Fade Time Select

Status	2nd Byte	3rd Byte
BnH	14H	kkH

n = MIDI Channel Number

kk = Output Fade Time : 00H-64H (0.0sec - 10.0sec)

Picture in Picture Select

Status	2nd Byte	3rd Byte
BnH	40H	0kH

n = MIDI Channel Number

k = PinP Button 0H - 4H (Off, PinP1 - PinP4)

WIPE PATTERN AUTO Button

Status	2nd Byte	3rd Byte
BnH	42H	7FH

n = MIDI Channel Number

DSK AUTO Button

Status	2nd Byte	3rd Byte
BnH	43H	7FH

n = MIDI Channel Number

HDMI Output Select

Status	2nd Byte	3rd Byte
BnH	15H	0kH

n=MIDI Channel Number

k=HDMI Output : 0H-5H(CH1.HDMI Audio - Mixer)

Main Volume

Status	2nd Byte	3rd Byte
BnH	16H	kkH

n=MIDI Channel Number

kk= Volume : 00H-37H(Mute, -48dB - +6dB)

Ch1.HDMI Audio Volume

Status	2nd Byte	3rd Byte
BnH	17H	kkH

n=MIDI Channel Number

kk = Volume : 00H-37H(Mute, -48dB - +6dB)

Ch2.HDMI Audio Volume

Status	2nd Byte	3rd Byte
BnH	18H	kkH

n=MIDI Channel Number

kk= Volume : 00H-37H(Mute, -48dB - +6dB)

Ch3.HDMI Audio Volume

Status	2nd Byte	3rd Byte
BnH	19H	kkH

n=MIDI Channel Number

kk= Volume : 00H-37H(Mute, -48dB - +6dB)

Ch4.HDMI Audio Volume

Status	2nd Byte	3rd Byte
BnH	1AH	kkH

n=MIDI Channel Number

kk= Volume : 00H-37H(Mute, -48dB - +6dB)

Audio In Volume

Status	2nd Byte	3rd Byte
BnH	1BH	kkH

n=MIDI Channel Number

kk= Volume : 00H-37H(Mute, -48dB - +6dB)

HDMI Audio Delay

Status	2nd Byte	3rd Byte
BnH	1CH	kkH

n=MIDI Channel Number

kk=Time : 00H-78H(0.0flame - 12.0flame)

Audio In Delay

Status	2nd Byte	3rd Byte
BnH	1DH	kkH

n=MIDI Channel Number

kk= Time : 00H-78H(0.0flame - 12.0flame)

Video Fader

Status	2nd Byte	3rd Byte
BnH	63H	llH
BnH	62H	mmH

n=MIDI Channel Number

ll,mm = Video Fader Value : 00H, 00H - 0FH, 7FH (0 - 2047)

* value is finalized on reception of mm.

Program Change**MEMORY Load**

Status	2nd Byte
CnH	ppH

n=MIDI Channel Number

pp = MEMORY Number : 00H-18H (1-1 - 5-5)

Messages Transmitted in V-LINK Master Mode

System Exclusive Message

Data Set (DT1)

This is the message for actual data transmission. Use this when you want to set data for the device.

Status	Data Byte	Status
F0H	41H,dev,00H,51H,12H,aaH,bbH,ccH,ddH,...,eeH,sum	F7H

Byte	Explanation
F0H	Exclusive Status
41H	ID Number (Roland)
10H	Device ID
00H	Model ID Upper Byte (V-LINK Message)
51H	Model ID Lower Byte (V-LINK Message)
12H	Command ID (DT1)
aaH	Address Upper Byte
bbH	Address
ccH	Address
ddH	Data : Actual data. If multiple, transmitted with address order.

eeH	Data
sumH	Checksum
F7H	EOX (End of Exclusive)

Parameter Address Map

System Preference Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 00H 00H	V-LINK ON/OFF	00H - [01H]	00H=OFF, 01H=ON

Video System Performance Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
20H 00H 00H	V-LINK Number of Video Mixer Inputs	04H	5CH

Audio Mixer Parameter Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
20H 20H 00H	V-LINK Audio Mixer Master Level	00H 00H - 07H 68H	Level 0.0 - 100.0%
20H 21H 02H	V-LINK Audio Mixer Ch 1 Level	00H 00H - 07H 68H	Level 0.0 - 100.0%
20H 21H 04H	V-LINK Audio Mixer Ch 2 Level	00H 00H - 07H 68H	Level 0.0 - 100.0%
20H 21H 06H	V-LINK Audio Mixer Ch 3 Level	00H 00H - 07H 68H	Level 0.0 - 100.0%
20H 21H 08H	V-LINK Audio Mixer Ch 4 Level	00H 00H - 07H 68H	Level 0.0 - 100.0%
20H 21H 0AH	V-LINK Audio Mixer Ch 5 Level	00H 00H - 07H 68H	Level 0.0 - 100.0%

Messages Received in V-LINK Slave Mode

Program Change

Status	2nd Byte
CnH	ppH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

pp = PST Cross-point Number : 00H -04H (CH1 - Background)

* The Dissolve Time is automatically adjusted when the Auto Mix Mode is ON.

Note On

Status	2nd Byte	3rd Byte
9nH	kkH	vvH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

kk = Note Number : 00H - 7FH (0 - 127)

vv = Velocity : Ignored

Note Off

Status	2nd Byte	3rd Byte
8nH	kkH	vvH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

kk = Note Number : 00H - 7FH (0 - 127)

vv = Velocity : Ignored

* This is valid when the Note Message Enabled is [49Key] or [Assignable].

* The Dissolve Time is automatically adjusted when the Auto Mix Mode is ON.

Control Change

Status	2nd Byte	3rd Byte
BnH	ccH	vvH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

cc = Controller Number : 00H -7FH (0 - 127)

vv = Value : 00H - 7FH (0 - 127)

Channel Pressure / After Touch

Status	2nd Byte
DnH	vvH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

vv = Value : 00H - 7FH (0 - 127)

Pitch Bend Change

Status	2nd Byte	3rd Byte
EnH	llH	mmH

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

ll = Ignored

mm = Value : 00H - 7FH (0 - 127)

Reset All Controllers

Status	2nd Byte	3rd Byte
BnH	79H	00H

n = Ctrl Rx MIDI Ch. Number : 0H-FH (Ch. 1-16)

* Returns to V-LINK default status.

System Exclusive Message

Date Set 1 (DT1)

This is the message for actual data transmission. Use this when you want to set data for the device.

Status	Data Byte	Status
F0H	41H,dev,00H,51H,12H,aaH,bbH,ccH,ddH,...,eeH,sum	F7H

Byte	Explanation
F0H	Exclusive Status
41H	ID Number (Roland)
10H	Device ID
00H	Model ID Upper Byte (V-LINK Message)
51H	Model ID Lower Byte (V-LINK Message)
12H	Command ID (DT1)
aaH	Address Upper Byte
bbH	Address
ccH	Address
ddH	Data : Actual data. If multiple, transmitted with address order.

eeH	Data
sumH	Checksum
F7H	EOX (End of Exclusive)

Parameter Address Map

System Preference Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 00H 00H	V-LINK ON/OFF	00H - [01H]	00H=Off, 01H=On
10H 00H 01H	Ctrl Rx MIDI Ch. (Clip & Color)	[00H] - 10H	00H=Ch. 1, 0FH=Ch. 16, 10H=Off
10H 00H 03H	Note Message Enabled	[00H] - 02H	00H=OFF, 01H=49 Keys, 02H=Assignable
10H 00H 07H	Auto Mix Mode	00H - [01H]	00H=Off, 01H=On

Clip Control Assignment Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 10H 02H	Dissolve Time Control Assign	00H - ([00H]) - 0FH	4 bit MSN + 4 bit LSN = 8 bit data. DOH = After Touch E0H = Pitch Bend Change FFH = None 01H-1FH, 40H-5FH = CC# Other values are reserved. 10H 10H 03H Dissolve Time Ctrl Assign LSN 00H - ([05H]) - 0FH

Clip Control Preference Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 30H 02H	Assignable Note Mode Keyboard Range Lower	00H - ([24H]) - 7FH	Note Number
10H 30H 03H	Assignable Note Mode Keyboard Range Upper	00H - ([31H]) - 7FH	Note Number

Messages Received in MVC Mode

Program Change

Status	2nd Byte
CnH	ppH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

pp = Channel Number : 00H -04H (CH1 - Background)

Note On

Status	2nd Byte	3rd Byte
9nH	kkH	vvH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

kk = Note Number : 00H-7FH (0-127)

Note Off

Status	2nd Byte	3rd Byte
8nH	kkH	vvH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

kk = Note Number : 00H-7FH (0-127)

Control Change

Status	2nd Byte	3rd Byte
BnH	ccH	vvH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

cc = Control Number ("CC#"): 00H-77H (0-119)

vv = Value : 00H-7FH (0-127)

Channel Pressure (After Touch)

Status	2nd Byte
DnH	vvH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

vv = Channel Pressure Value : 00H-7FH (0-127)

Pitch Bend Change

Status	2nd Byte	3rd Byte
EnH	llH	mmH

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

ll = Ignored

mm = Pitch Bend Value : 00H - 7FH (0 - 127)

Channel Mode Message

Status	2nd Byte	3rd Byte
BnH	79H	00H

n = MIDI Channel Number (CCM): 0H-FH (Ch. 1-16)

Universal System Exclusive

FOH	7EH Dev OCH 01H {..}	F7H
-----	----------------------	-----

MIDI Visual Control Data Set

MIDI Visual Control Data Set is made of data address, actual data to be transmitted and the checksum.

aa		upper
bb	address	middle
cc	data	lower
dd		-
:		
ee		
sum		sum

Byte	Explanation
FOH	System Exclusive Status
7EH	Universal System Exclusive Non Real-time Header
00H	Device ID
0CH	Sub ID#1 (MIDI Visual Control)
01H	Sub ID#2 (MVC Command Set ID; 01H= "Version 1.0")
{..}	MIDI Visual Control "Data Set"
F7H	End of System Exclusive ("EOX")

MVC Slave Parameter Address Map

System Preference Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 00H 00H	MIDI Visual Control ON/OFF	00H - [01H]	00H=Off, 01H=On
10H 00H 01H	CCM (Clip Control Rx MIDI Ch.)	[00H] - 10H	00H=Ch. 1, 0FH=Ch. 16, 10H=Off
10H 00H 03H	NME (Note Message Enabled)	[00H]- 01H	00H=OFF, 01H=Assignable

Clip Control Assignment Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 10H 02H	Dissolve Time Ctrl Assign MSN	00H - ([00H]) - 0FH	4 bit MSN + 4 bit LSN = 8 bit data.
10H 10H 03H	Dissolve Time Ctrl Assign LSN	00H - ([05H]) - 0FH	D0H = After Touch E0H = Pitch Bend Change FFH = None 01H-1FH, 40H-5FH = CC# Other values are reserved.

Clip Control Preference Area

Address	Parameter Name	Sys.Ex. Value	Meaning of Value
10H 30H 02H	Keyboard Range Lower	00H - ([24H]) - 7FH	Note Number
10H 30H 03H	Keyboard Range Upper	00H - ([54H]) - 7FH	Note Number

Appendices

Decimal and hexadecimal conversion table

* The "H" follows the numbers in hexadecimal notation.

MIDI uses hexadecimal notation in 7-bit units to indicate data values, addresses and sizes within an exclusive message. Decimal and hexadecimal numbers corresponds as follows.

Deci	Hexa	Deci	Hexa	Deci	Hexa	Deci	Hexa
0	00H	32	20H	64	40H	96	60H
1	01H	33	21H	65	41H	97	61H
2	02H	34	22H	66	42H	98	62H
3	03H	35	23H	67	43H	99	63H
4	04H	36	24H	68	44H	100	64H
5	05H	37	25H	69	45H	101	65H
6	06H	38	26H	70	46H	102	66H
7	07H	39	27H	71	47H	103	67H
8	08H	40	28H	72	48H	104	68H
9	09H	41	29H	73	49H	105	69H
10	0AH	42	2AH	74	4AH	106	6AH
11	0BH	43	2BH	75	4BH	107	6BH
12	0CH	44	2CH	76	4CH	108	6CH
13	0DH	45	2DH	77	4DH	109	6DH
14	0EH	46	2EH	78	4EH	110	6EH
15	0FH	47	2FH	79	4FH	111	6FH
16	10H	48	30H	80	50H	112	70H
17	11H	49	31H	81	51H	113	71H
18	12H	50	32H	82	52H	114	72H
19	13H	51	33H	83	53H	115	73H
20	14H	52	34H	84	54H	116	74H
21	15H	53	35H	85	55H	117	75H
22	16H	54	36H	86	56H	118	76H
23	17H	55	37H	87	57H	119	77H
24	18H	56	38H	88	58H	120	78H
25	19H	57	39H	89	59H	121	79H
26	1AH	58	3AH	90	5AH	122	7AH
27	1BH	59	3BH	91	5BH	123	7BH
28	1CH	60	3CH	92	5CH	124	7CH
29	1DH	61	3DH	93	5DH	125	7DH
30	1EH	62	3EH	94	5EH	126	7EH
31	1FH	63	3FH	95	5FH	127	7FH

* Decimal expressions used for MIDI channels, bank select, program change and device ID are 1 greater than the decimal value shown on above table.

Exclusive message and checksum calculation

Roland exclusive messages (RQ1, DT1) contain a checksum following the data (after F7), which can be used to check whether the message was received correctly. The checksum value is derived from the address and data (or size) of the transmitted exclusive message.

Calculating the checksum

* "H" is appended to hexadecimal numbers.

The checksum is a value that produces a lower 7 bits of zero when the address, size, and checksum itself are summed. If the exclusive message to be transmitted has an address of aaH bbH ccH and the data is ddH eeH, the actual calculation would be as follows:

$$aaH + bbH + ccH + ddH + eeH = \text{sum}$$

$$\text{sum} / 128 = \text{quotient} \text{ --- remainder}$$

$$128 - \text{remainder} = \text{checksum}$$

ADDR

The address of the transmitted data. If multiple data is transmitted, this will be the address of the first data. Each data byte has addresses made of 3 bytes and the range is from 10H 00H 00H to 10H 7FH 7FH. Refer to Parameter Address Map for addresses.

DATA

The actual parameter data to be transmitted. When you set multiple parameters that do not include reserved address, you can transmit multiple items in one message. However, if it exceeds 128 bytes, it should be divided in order to make the message smaller than 128 bytes and the interval of transmission must be 20ms or longer.

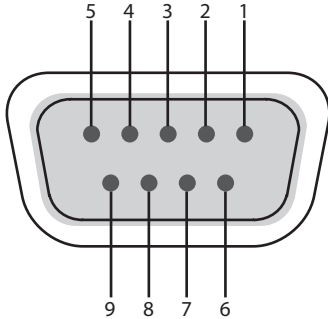
SUM

The value that makes the lower 7 bits of [ADDR] + [DATA] + SUM (checksum) is zero.

RS-232C Command Reference

It is possible to remote control the V-40HD from an external device using the RS-232C jack.

Specification of the RS-232C Jack



Pin No.	Signal
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RI

Communication method	Synchronous (asynchronous), full-duplex
Communication speed	9600 bps
Parity	none
Data length	8 bit
Stop bit	1 bit
Code set	ASCII
Flow Control	none

Overview of Commands

A command consists of an ASCII code sequence containing "stx," three uppercase letters, and a semicolon (";"). The three letters indicate the command type.

If the command has an argument, a colon (":") is inserted between the command letters and the argument. When multiple arguments occur, they are separated by commas (",").

"stx"

This is the ASCII code signal name (code number 02H [hexadecimal]) and code that signals the command start. Your device's stx command may not be the ASCII letters "stx" or "02H". Refer to your RS-232C controller's manual to send proper command.

":"

This is the code to separate the command and its argument.

";"

This is the code to make V-800HD recognize the end of a command.

* The codes of stx(02H) & ACK(06H) or Xon(11H) / Xoff(13H) are the control codes.

* If the external device sends multiple commands to the V-800HD sequentially, it must wait for ACK to be returned before sending the next command.

Commands Transmitted from an External Device

HRC

stxHRC:a;
0(HDMI), 1(RGB/Component), 2(Composite), 3(Shared Input)
a;Source Select

PGM

stxPGM:a;
PGM Channel Number 0(CH 1) - 4(Background)
a;PGM Channel Select

PST

stxPST:a;
PST Channel Number 0(CH 1) - 4(Background)
a;PST Channel Select

PVW

stxPVW:a;
0(INPUT), 1(PST), 2(PGM), 3(DSK)
a;PVW Switch

TRS

stxTRS:a;
0:WIPE 1, 1:WIPE 2, 2:CUT, 3:MIX
a;Transition Pattern Select

TIM

stxTIM:a;
Time 0(0.0s) - 100(10.0s)
a;Transition Time Set

ATO

stxATO;
AUTO Switching Start

PIP

stxPIP:a;
0(PinP Off), 1(PinP1 On), 2(PinP2 On),
3(PinP3 On), 4(PinP4 On)
a;PinP Status Set

DSK

stxDSK;
DSK Auto Switching Start

MVL

stxMVL:a;
0(Mute) - 49(0dB) - 55(+6dB)
a;Audio Master Level Set

ADL

stxADL:a;
Time 0(0.0 frame) - 120(12.0 frames)
a;Analog Audio Delay Time Set

HDL

stxHDL:a;
Time 0(0.0 frame) - 120(12.0 frames)
a;HDMI Audio Delay Set

FDE

stxFDE:a;
0:OFF 1:ON
a;Output Fade Start

FDT

stxFDT:a;
Time 0(0.0s) - 100(10.0s)
a;Output Fade Time Set

MEM

stxMEM:a;
Memory Number 0(1-1) - 24(5-5)
a;Load Memory

VER

stxVER;
Returns the version info

ACS

stxACS;
Check status of the unit

XON

XON
Flow Control

XOFF

XOFF
Flow Control

Data Transmitted from the V-800HD

ACK

ACK

This is transmitted when the command is properly received.

ERR

stxERR:a;

a:

0 (syntax error)

The command contains error.

5 (out of range error)

The command is out of range.**VER**

stxVER: V-40HD, a;

a;Version

This is transmitted when the unit receives VER command.

* The version info is ASCII text strings.

XON

XON

Flow Control

XOFF

XOFF

Flow Control