

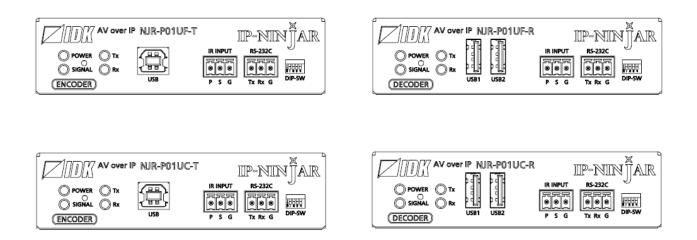
HDMI Encoder/Decoder

NJR-P01U Series

NJR-P01UF-T/NJR-P01UF-R NJR-P01UC-T/NJR-P01UC-R

<Command Reference Guide>

Ver.1.0.0



- Thank you for choosing our product.
- To ensure the best performance of this product, please read this user guide fully and carefully before using it and keep this manual together with the product for future reference as needed.

IDK Corporation

NJR-P01U Series Command Guide

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Before reading this manual

- All rights reserved.
- Some information contained in this Command guide such as exact product appearance, communication commands, and so on may differ depending on the product version.
- This Command guide is subject to change without notice. You can download the latest version from IDK's website at: <u>http://www.idkav.com</u>

The reference manual consists of the following two volumes:

- User guide: Please download the User guide from the website above.
 Provides explanations and procedures for operations, installation, connections among devices, I/O adjustment and settings.
- Command guide (this document): Provides explanations and procedures for external control using RS-232C and LAN communications.

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1 How to read this Guide

This guide contains the procedure for commanding NJR-P01UF/NJR-P01UC (hereafter referred to as "NJR-P") via RS-232C communication or LAN communication. The NJR-P01UF-T and NJR-P01UC-T refer to encoders while the NJR-P01UF-R and NJR-P01UC-R refer to decoders. If other IP-NINJAR series products are connected, refer to each User Guide.

2 About this Guide

This guide contains the procedure for controlling NJR-P using commands via RS-232C communication or LAN communication.

Communication commands enable the following main operations:

- · Setting input, output, and audio
- Setting EDID
- Displaying information

3 Communication configuration and Specifications

3.1 RS-232C communication

The NJR-P can be accessed and controlled via RS-232C communication.

Connecting a control device to the NJR-P's RS-232C connectors enables system control and status queries per the Command List.

3.1.1 Setting up RS-232C communication

Follow the procedure below.

- (1) Connect the control device to the RS-232C connector of the NJR-P through an RS-232C cable.
- (2) Set the DIP switch 1 to "ON".
- (3) See the control device according to "[Table 3.1] RS-232C specification".
- (4) Send communication command from the control device to the NJR-P.

You can control the NJR-P and get the status information using communication command.

	RS-232C cable	
PC for control (For communication		
command)	ZIDZ AV OVER IP NJR-POIUF-T IIP-ININ JAR	
	O POWER Tx O SIGNAL Rx	
	ENCODER USB P S G Tx Rx G DIP-SW	

NJR-P01UF/C-T or NJR-P01UF/C-R

DIP switch (No.1)

Setting internal connection selection of RS-232C connector

OFF : NJR-P01UF/C-T and NJR-P01UF/C-R are connected

ON : Connected to CPU of <u>NJR-P01UF/C-T</u> and can set NJR-P01UF/C-T Or

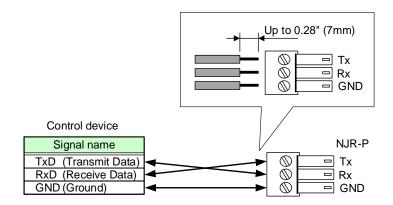
Connected to CPU of <u>NJR-P01UF/C-R</u> and can set NJR-P01UF/C-R (Default: OFF)

[Fig. 3.1] Setting RS-232C communication

3.1.2 RS-232C connector specification

Insert and secure the wires from the RS-232C cable into the supplied 3-pin captive screw connector, and then insert the captive screw connector into the mating connector on the NJR-P.

28 AWG to 16 AWG conductor gauge is recommended. The recommended wire strip length is 0.28 in. (7 mm). Short RTS/CTS and DTR/DSR as needed.



[Fig. 3.2] RS-232C connector

3.1.3 RS-232C communication specification

There are two RS-232C modes: control mode (setting NJR-P) and communication mode (controlling peripheral devices). Values for the former mode are fixed as follows and cannot be changed; values for the latter mode are settable.

[See: 4.5.2.6 RS-232C]

Compliant standard	RS-232C
Baud rate	9600 [bps]
Data bit length	8 [bit]
Parity check	None
Stop bit	1 [bit]
X parameter	Invalid
Flow control	None
Communication method	Full duplex

[Table 3.1] RS-232C specification

3.2 LAN communication

The NJR-P can be accessed and controlled through LAN communication.

Connecting a control device to the NJR-P's LAN connector enables system control and status queries using the IP-NINJAR Configurator (configuration software for IP-NINJAR).

For operations from the IP-NINJAR Configurator, refer to the User Guide of IP-NINJAR Configurator.

Please contact us to download the IP-NINJAR Configurator.

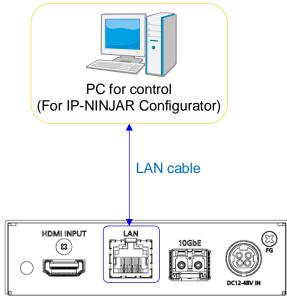
Note:

When using LAN communication to control the NJR-P, the terminal software cannot be used.

3.2.1 Setting up LAN communication

Follow the procedure below.

- (1) Connect the control device to the LAN connector of the NJR-P through a LAN cable.
- (2) Start the IP-NINJAR Configurator in the control device.
- (3) Send communication command from the Maintenance page of the IP-NINJAR Configurator. You can control the NJR-P and get the status information using communication command.

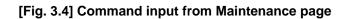


NJR-P01UF/C-T or NJR-P01UF/C-R

[Fig. 3.3] Connecting to LAN cable

IDK IP-NINJAR Configurator File(F) Help(H)	– 0 X
IP-NINJAR	
Local IP Address : P/N : NJR-P01UC-R Firmware : 1.1.1.0/0.15 169.254.140.66 MAC Address : 0016C04C4815	
IP-NINJAR Stop NJR-T01UHD NIR-T01UHD NJR-R01UHD Setting Initialization NJR-T01UHD Setting Initialization NJR-RW01UHD Exclude Network Settings NJR-RW01UHD Reboot NJR-R04DD Send Command NJR-R04HD Initialization	Clear Clear
NJR-AB08DAN NJR-P01UF-T ObleCo4C5237 NJR-P01UF-R ObleCo4C4830 NJR-P01UC-T ObleCo4C4834 NJR-P01UC-R ObleCo4C4815	3

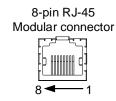
For entering the desired command
 For sending the command to NJR-P
 For displaying the log
 For deleting the log



3.2.2 LAN connector specification

LAN connector assignment is as follows.

Since Auto MDI/MDI-X that distinguishes and switches straight/cross cables automatically is supported, extra care is not necessary to connect the NJR-P to PC, HUB or the like.



	Signal name				
Pin No.	MDI		MDI-X		
	1000BASE-T	100BASE-TX/10BASE-T	1000BASE-T	100BASE-TX/10BASE-T	
1	TRX+ (Transmitted &	TX+ (Transmitted data +)	TRX+ (Transmitted &	RX+ (Received data +)	
	Received data +)		Received data +)		
2	TRX- (Transmitted &	TX- (Transmitted data -)	TRX- (Transmitted &	RX- (Received data -)	
	Received data -)		Received data -)		
3	TRX+ (Transmitted &	RX+ (Received data +)	TRX+ (Transmitted &	TX+ (Transmitted data +)	
	Received data +)		Received data +)		
4	TRX+ (Transmitted &	N.C. (Not connected)*	TRX+ (Transmitted &	N.C. (Not connected)*	
	Received data +)		Received data +)		
5	TRX- (Transmitted &	N.C. (Not connected)*	TRX- (Transmitted &	N.C. (Not connected)*	
	Received data -)		Received data -)		
6	TRX- (Transmitted &	RX- (Received data -)	TRX- (Transmitted &	TX- (Transmitted data -)	
	Received data -)		Received data -)		
7	TRX+ (Transmitted &	N.C. (Not connected)*	TRX+ (Transmitted &	N.C. (Not connected)*	
	Received data +)		Received data +)		
8	TRX- (Transmitted &	N.C. (Not connected)*	TRX- (Transmitted &	N.C. (Not connected)*	
	Received data -)		Received data -)		

*Not used

[Fig. 3.5] LAN connector

3.2.3 LAN communication specification

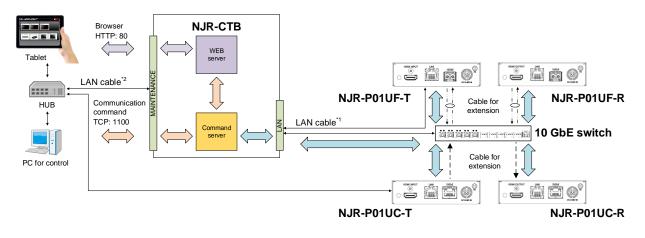
[Table 3.2] Specification of LAN communication

Physical layer	10Base-T (IEEE802.3i)/100Base-TX (IEEE802.3u)/ 1000Base-T (IEEE802.3ab)
Network layer	ARP, IP, ICMP
Transport layer	UDP

3.3 Controlled by NJR-CTB

Connecting a control device to the NJR-CTB's LAN connector enables system control and status queries per the Command List.

For operations from the NJR-CTB, refer to the Command Guide of NJR-CTB.



¹¹ The LAN connector of NJR-CTB should be connected to the LAN connector of NJR-P or the 10 GbE switch. ¹² PC for control should be connected to the MAINTENANCE connector of NJR-CTB or the LAN connector of NJR-P.

[Fig. 3.6] Controlled by NJR-CTB

3.4 Connecting LAN cable

When connecting a LAN cable to NJR-P/NJR-CTB, avoid making a network loop.

The NJR-P send broadcast packets periodically for the purposes of internal system management. *A broadcast storm occurs when a network is overwhelmed by continuous broadcast traffic resulting in a network meltdown.

During installation, it is important to avoid the creation of network loops. Contact IDK if you require assistance with network implementation.

4 Command

4.1 Summary

A command consists of "@" ("40" in hexadecimal), 3 or 4 one-byte alphabetical characters (upper and lower cases) followed by parameters (one-byte numbers). For some commands, multiple parameter values can be specified. Processing is executed by sending a delimiter at the end of the command.

Example: @SDT,1,1,1,10000

"," (a comma, "2C" in hex) is indicated between a command and parameter and between two parameters. " " is indicated as a delimiter CR LF (return+line feed, "0D" and "0A" in hex).

■ If an error occurs:

An error response is returned if an undefined command or inappropriate parameter is included.

Example: @SDT,1 4 @ERR,1 4

Using as HELP

If only delimiter is sent, command list as the help command is returned.

Example: 🚽

HELP (1/2) ------- I
(INPUT SETTING Command) I
@GDT / @SDT : Getting/Setting No-signal input monitoring I
Signal Detect Time I
@GHE / @SHE : Getting/Setting HDCP input enabled/disabled I
(OUTPUT SETTING Command) I
@GDM / @SDM : Getting/Setting Output mode I
(AUDIO Command) I
@GAM / @SAM : Getting mute status of digital audio output I
Muting/unmuting digital audio output I

4.2 Command list

Error status

Command	Function	Page
@ERR	Error status	18

Input

Command	Function	Page
@GDT / @SDT	No-signal input monitoring	19
@GHE / @SHE	HDCP input enabled/disabled	20

Output

Command	Function	Page
@GDM / @SDM	Output mode	21
@GEN / @SEN	HDCP output	22
@GHM / @SHM	Hot plug ignoring duration	23

Audio

Command	Function	Page
@GAM / @SAM	Muting/unmuting digital audio output	24
@GAAS / @SAAS	Output audio	25

EDID

Command	Function	Page
@GVF/@SVF	EDID resolution	26
@GWX/@SWX	Selecting WXGA mode	27
@GDI / @SDI	Deep Color	27
@GAF / @SAF	Audio format	28
@GSP/@SSP	Speaker configuration	29

IR control

Command	Function	Page
@GIR / @SIR	IR control	31

■ RS-232C

Command	Function	Page
@GCTB / @SCTB	RS-232C communication	32

LAN

Command	Function	Page
@GIP / @SIP	LAN	33
@GMC	MAC address	34

Advanced setting

Command	Function	Page
@CLRC	Initialization	35
@RBTC	Reboot	35

Information

Command	Function	Page
@GSS	I/O status	36
@GES	Monitor EDID	39
@GIV	Version	40

4.3 Setting items

Some setting items can be controlled via RS-232C; the others cannot be controlled.

[Table 4.1] Available setting method

Command: Command input, GUI: IP-NINJAR Configurator GUI operation, WEB&C: WEB browser and command input, No: Not supported, -: N/A

	Setting method		
	NJI	R-P	NJR-CTB
Command		LAN	
	RS-232C	(IP-NINJAR	LAN
		Configurator)	
	In	out	
@GDT / @SDT	Command	Command	WEB&C
@GHE / @SHE	Command	Command	WEB&C
	Ou	tput	
@GDM / @SDM	Command	Command	WEB&C
@GEN / @SEN	Command	Command	WEB&C
@GHM / @SHM	Command	Command	WEB&C
	Au	dio	
@GAM / @SAM	Command	Command	WEB&C
@GAAS / @SAAS	No	GUI	WEB&C
	EC	DID	
@GVF/@SVF	Command	Command	WEB&C
@GWX / @SWX	Command	Command	WEB&C
@GDI / @SDI	Command	Command	WEB&C
@GAF / @SAF	Command	Command	WEB&C
@GSP / @SSP	Command	Command	WEB&C
	IR co	ontrol	
@GIR / @SIR	Command	Command	WEB&C
	RS-2	232C	
@GCTB / @SCTB	No	GUI	WEB&C
	LA	٨N	
@GIP / @SIP	No	GUI	WEB&C
@GMC	No	GUI	WEB&C
	Advance	ed setting	
@CLRC	No	GUI	WEB&C
@RBTC	No	GUI	WEB&C
	Inform	nation	
@GSS	Command	Command	WEB&C
@GES	Command	Command	WEB&C
0020	Command	Command	

4.4 Parameter input format

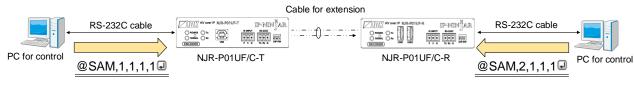
Parameter input formats are common for each setting.

If a command is input from the RS-232C connector of NJR-P or from the LAN connector using the IP-NINJAR Configurator (Software for setting IP-NINJAR), "1" fixed is specified to "ch" (channel) because only one NJR-P can be controlled.

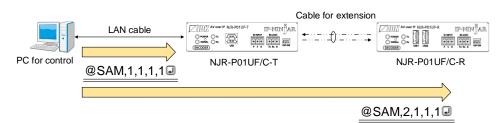
If a command is input from the NJR-CTB, any channel can be specified because multiple NJR-P devices that are connected over a network switch can be controlled.

Example:

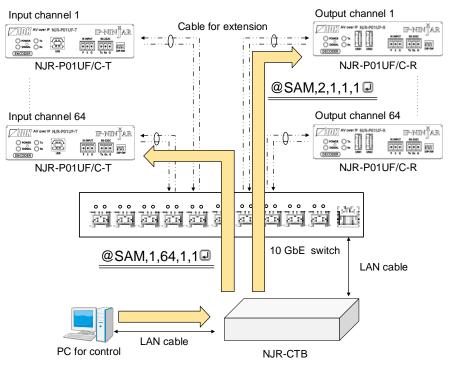
Format	@SAM, device, ch, port, mute 🚽	
Parameter	device: Model	
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/C-R	
	ch: Channel	
	1 to 512 = Channel 1 to Channel 512	
	If a command is input from the RS-232C connector of NJR-P or from the IP-NINJAR	
	Configurator, "1" is set (fixed).	
	port: Connector	
	"1" fixed	
	mute: Audio mute	
	0 = Mute OFF [Default], 1 = Mute ON	



[Fig. 4.1] Command input from RS-232C



[Fig. 4.2] Command input from IP-NINJAR Configurator



[Fig. 4.3] Command input from NJR-CTB

4.5 Details of commands

4.5.1 Error status

@ERR	Error status		
Format	Return value only		
Return value	@ERR, error 🚽		
Parameter	error: Error status	error: Error status	
	1 = Erroneous parameter format or value		
	2 = Undefined command or wrong format		
	3 = Currently cannot be used		
	99 = Error other than errors above	99 = Error other than errors above	
Example	@GAM 🖃	Sending @GAM command	
	@ERR,1 🚽	Parameter error	
Remarks	-		

4.5.2 Basic setting

4.5.2.1 Input

@GDT / @SDT	No-signal input monitoring		
Function	Getting	Setting	
Format	@GDT, device, ch, port 🚽	@SDT, device, ch, port, time 🚽	
Return value	@GDT, device, ch, port, time 🚽	@SDT, device, ch, port, time 🚽	
Parameter	device: Model		
	"1" fixed		
	ch: Input channel		
	1 to 512 = Input channel 1 to Input cha	nnel 512	
	If a command is input from the RS-232C c	onnector of NJR-P01UF/C-T or from the	
	IP-NINJAR Configurator, "1" is set (fixed).		
	port: Input connector		
	"1" fixed		
	time: No-signal input monitoring		
	0 = OFF, 2000 to 15000 = 2 sec. to 15 sec. [Default] 10000 = 10 sec.		
	Set this value by the 1000 ms. If you set a value other than 0 for the lower 3 digits,		
	these values will be rounded down.		
	(For example, if you set it to 2955, the mor	nitoring time is set to 2000 ms.)	
Example	@GDT,1,1,1 🖵	Getting the no-signal input monitoring of	
		Channel 1	
	@GDT,1,1,1,6000 🚽	6000 ms. (6 seconds)	
	@SDT,1,1,1,6000 🚽	Setting the no-signal monitoring of	
		Channel 1 to 6000 ms. (6 seconds)	
	@SDT,1,1,1,6000 🖵	Completed	
Remarks	The NJR-P01UF/C-R does not support this	s command.	

@GHE / @SHE	HDCP input enabled/disabled		
Function	Getting	Setting	
Format	@GHE, device, ch, port 🚽	@SHE, device, ch, port, hdcp 🚽	
Return value	@GHE, device, ch, port, hdcp 🚽	@SHE, device, ch, port, hdcp 🕘	
Parameter	device: Model		
	"1" fixed		
	ch: Input channel		
	1 to 512 = Input channel 1 to Input chan	nnel 512	
	If a command is input from the RS-232C connector of NJR-P01UF/C-T or from the		
	IP-NINJAR Configurator, "1" is set (fixed).		
	port: Input connector "1" fixed		
	hdcp: HDCP input enabled/disabled		
	0 = DISABLE, 1 = ENABLE [Default]		
Example	@GHE,1,1,1 🚽	Getting the HDCP input enabled/disabled	
		of Channel 1	
	@GHE,1,1,1,0 🖵	HDCP disabled	
	@SHE,1,1,1,0 🖃	Setting the HDCP input of Channel 1 to	
		be disabled	
	@SHE,1,1,1,0 🖵	Completed	
Remarks	The NJR-P01UF/C-R does not support this command.		

4.5.2.2 Output

@GDM / @SDM	Output mode		
Function	Getting	Setting	
Format	@GDM, device, ch, reserved 🖵	@SDM, device, ch, port, mode 🚽	
Return value	@GDM, device, ch, reserved, mode_1 (,	@SDM, device, ch, port, mode 🚽	
	mode_2) 🚽		
Parameter	device: Model		
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/C-R ch: Channel 1 to 512 = Channel 1 to Channel 512		
	If a command is input from the RS-232C c	onnector of NJR-P or from the IP-NINJAR	
	Configurator, "1" is set (fixed). reserved: Reservation		
	"1" fixed		
	port: Output connector		
	"1" fixed		
	mode_1 to mode_2, mode: Output mode		
	0 = AUTO [Default], 1 = DVI output, 2 = RGB output,		
	3 = YCbCr4:2:2 output, 4 = YCbCr4:4:4 output, 5 = YCbCr4:2:0 output		
	NJR-P01UF/C-T:		
	mode_1 = Output connector for extension, mode_2 = Reservation		
	NJR-P01UF/C-R:		
	mode_1 = HDMI output connector		
Example	@GDM,1,1,1 🖵	Getting the output mode of	
		NJR-P01UF/C-T Channel 1 output	
		connector for extension	
	@GDM,1,1,1,0,0 🖵	AUTO	
	@GDM,2,1,1 🚽	Getting the output mode of	
		NJR-P01UF/C-R Channel 1 HDMI output	
		connector	
	@GDM,2,1,1,0	AUTO	
	@SDM,2,1,1,4 🖃	Setting the output mode of	
		NJR-P01UF/C-R Channel 1 HDMI output	
		connector to YCbCr4:4:4 output	
	@SDM,2,1,1,4	Completed	
Remarks	-		

@GEN / @SEN	HDCP output		
Function	Getting	Setting	
Format	@GEN, device, ch, reserved 🚽	@SEN, device, ch, port, hdcp 🚽	
Return value	@GEN, device, ch, reserved, hdcp 🚽	@SEN, device, ch, port, hdcp 🚽	
Parameter	device: Model		
	"2" fixed		
	ch: Channel		
	1 to 512 = Channel 1 to Channel 512		
	If a command is input from the RS-232C co	onnector of NJR-P01UF/C-R or from the	
	IP-NINJAR Configurator, "1" is set (fixed).		
	reserved: Reservation		
	"1" fixed		
	port: Output connector		
	"1" fixed hdcp: HDCP output		
	1 = ALWAYS [Default], 2 = HDCP INPUT ONLY, 3 = HDCP 2.2		
Example	@GEN,2,1,1 🚽	Getting the HDCP output of Channel 1	
	@GEN,2,1,1,1 🚽	ALWAYS	
	@SEN,2,1,1,2 🚽	Setting the HDCP output of Channel 1 to	
		HDCP INPUT ONLY	
	@SEN,2,1,1,2 🕘	Completed	
Remarks	The NJR-P01UF/C-T does not support this command.		

@GHM / @SHM	Hot plug ignoring duration		
Function	Getting	Setting	
Format	@GHM, device, ch, reserved 🖵	@SHM, device, ch, port, time 🖵	
Return value	@GHM, device, ch, reserved, time 🚽	@SHM, device, ch, port, time 🚽	
Parameter	device: Model		
	"2" fixed		
	ch: Channel		
	1 to 512 = Channel 1 to Channel 512		
	If a command is input from the RS-232C	connector of NJR-P01UF/C-R or from the	
	IP-NINJAR Configurator, "1" is set (fixed)).	
	reserved: Reservation	reserved: Reservation	
	 "1" fixed port: Output connector "1" fixed time: Masking time 0 = OFF (No ignoring request signals) [Default], 2000 to 15000 = 2 sec. to 15 sec. Set this value by the 1000 ms. If you set a value other than 0 for the lower 3 digit these values will be rounded down. 		
	(For example, if you set it to 2955, the monitoring time is set to 2000 ms.)		
Example	@GHM,2,1,1 🚽	Getting the hot plug ignoring duration of	
		Channel 1	
	@GHM,2,1,1,2000 🖵	For 2 seconds	
	@SHM,2,1,1,0 🚽	Setting the hot plug ignoring duration of	
		Channel 1 to OFF	
	@SHM,2,1,1,0 🖃	Completed	
Remarks	The NJR-P01UF/C-T does not support this command.		

4.5.2.3 Audio

@GAM / @SAM	Muting/unmuting digital audio output					
Function	Getting	Setting				
Format	@GAM, device, ch, port 🚽	@SAM, device, ch, port, mute 🚽				
Return value	@GAM, device, ch, port, mute 🚽	@SAM, device, ch, port, mute 🚽				
Parameter	device: Model					
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/C	C-R				
	ch: Channel					
	1 to 512 = Channel 1 to Channel 512					
	If a command is input from the RS-232C co	onnector of NJR-P or from the IP-NINJAR				
	Configurator, "1" is set (fixed).					
	port: Connector					
	"1" fixed					
	mute: Audio mute					
	0 = Mute OFF [Default], 1 = Mute ON					
Example	@GAM,1,1,1 🕘	Getting the audio mute of				
		NJR-P01UF/C-T Channel 1				
	@GAM,1,1,1,0 🚽	Mute OFF				
	@SAM,1,1,1,0 🚽	Setting the audio mute of				
		NJR-P01UF/C-T Channel 1 to OFF				
	@SAM,1,1,1,0 🚽	Completed				
Remarks	-					

@GAAS/	Output audio					
@SAAS						
Function	Getting	Setting				
Format	@GAAS, device, ch, reserved_1 🚽	@SAAS, device, ch, reserved_1,				
		reserved_2, digital 🚽				
Return value	@GAAS, device, ch, reserved_1,	@SAAS, device, ch, reserved_1,				
	reserved_2, digital 🚽	reserved_2, digital 🚽				
Parameter	device: Model					
	"2" fixed					
	ch: Channel					
	1 to 512 = Channel 1 to Channel 512	2				
	reserved_1: Reservation					
	"1" fixed					
	reserved_2: Reservation					
	"0" fixed					
	digital: Digital audio output connector					
	0 = Analog input audio, 1 = Digital in	put audio [Default]				
Example	@GAAS,2,1,1 🚽	Getting the output audio of Channel 1				
	@GAAS,2,1,1,0,1 🚽	Digital input audio is output from the				
		digital audio output connector				
	@SAAS,2,1,1,0,1 🖵	Setting the Channel 1 to output digital				
		input audio				
	@SAAS,2,1,1,0,1 🖃	Completed				
Remarks	The NJR-P01UF/C-T does not support t	his command.				
	This command can be input only via the NJR-CTB command server.					
	Commands for analog input audio can b	e used when using the NJR-P01UF/C-R with				
	other IP-NINJAR series products.					

4.5.2.4 EDID

@GVF / @SVF	EDID resolution					
Function	Getting	Setting				
Format	@GVF, device, ch, port 🚽	@SVF, device, ch, port, resolution 🚽				
Return value	@GVF, device, ch, port, resolution 🚽	@SVF, device, ch, port, resolution 🚽				
Parameter	device: Model					
	"1" fixed					
	ch: Input channel					
	1 to 512 = Input channel 1 to Input cha	annel 512				
	If a command is input from the RS-232C of	connector of NJR-P01UF/C-T or from the				
	IP-NINJAR Configurator, "1" is set (fixed).					
	port: Input connector					
	"1" fixed					
	resolution: EDID resolution					
	1 = Copied EDID1,					
	5 = 1080p@50/59.94/60 (1920x1080),					
	6 = 720p@50/59.94/60 (1280x720),					
	7 = 1080i@50/59.94/60 (1920x1080),					
	10 = SVGA (800x600),	11 = XGA (1024x768),				
	12 = VESA720 (1280x720), $13 = WXGA (1280x768),$					
	14 = WXGA (1280x800),	15 = Quad-VGA (1280x960),				
	16 = SXGA (1280x1024),	17 = WXGA (1360x768/1366x768),				
	18 = SXGA+ (1400x1050),	19 = WXGA + (1440x900),				
	20 = WXGA++ (1600x900),	21 = UXGA (1600x1200),				
	22 = WSXGA+ (1680x1050),	23 = VESA1080 (1920x1080),				
	24 = WUXGA (1920x1200),	25 = QWXGA (2048x1152),				
	26 = WQHD (2560x1440), 27 = WQXGA (2560x1600),					
	43 = 2160p@50/59.94/60 - 4:2:0 (3840x2160),					
	$44 = 4096 \times 2160 @ 50/59.94/60 - 4:2:0,$	·0400) [D-6]4]				
	45 = 2160p@50/59.94/60 - 4:4:4 (3840) 46 = 4096x2160@50/59.94/60 - 4:4:4	x2160) [Default],				
Example	@GVF,1,1,1 d	Getting the EDID resolution of Channel 1				
Example	@GVF,1,1,1,24	WUXGA				
	@SVF,1,1,1,24 @	Setting the EDID resolution of Channel 1				
	© 3 VI , I, I, I, I, Z4 ©	to WUXGA				
	@SVF,1,1,1,24 🖵	Completed				
Remarks	The NJR-P01UF/C-R does not support thi	•				
	Select EDID of 1360x768 and 1366x768 using "@GWX / @SWX Selecting WXGA					
	mode".					

@GWX / @SWX	Selecting WXGA mode				
Function	Getting	Setting			
Format	@GWX, device, ch, port 🚽	@SWX, device, ch, port, mode 🖵			
Return value	@GWX, device, ch, port, mode 🖵	@SWX, device, ch, port, mode 🕘			
Parameter	device: Model				
	"1" fixed				
	ch: Input channel				
	1 to 512 = Input channel 1 to Input chan	nnel 512			
	If a command is input from the RS-232C co	onnector of NJR-P01UF/C-T or from the			
	IP-NINJAR Configurator, "1" is set (fixed).				
	port: Input connector				
	"1" fixed				
	mode: Selecting WXGA mode				
	0 = 1360x768 [Default], 1 = 1366x768	3			
Example	@GWX,1,1,1 🖃	Getting the WXGA mode of Channel 1			
	@GWX,1,1,1,0 🖃	1360x768			
	@SWX,1,1,1,0				
	1360x768				
	@SWX,1,1,1,0 I Completed				
Remarks	The NJR-P01UF/C-R does not support this command.				

@GDI / @SDI	Deep Color				
Function	Getting	Setting			
Format	@GDI, device, ch, port 🚽	@SDI, device, ch, port, color 🚽			
Return value	@GDI, device, ch, port, color 🚽	@SDI, device, ch, port, color 🚽			
Parameter	device: Model				
	"1" fixed				
	ch: Input channel				
	1 to 512 = Input channel 1 to Input cha	annel 512			
	If a command is input from the RS-232C of	connector of NJR-P01UF/C-T or from the			
	IP-NINJAR Configurator, "1" is set (fixed).				
	port: Input connector				
	"1" fixed				
	color: Color depth				
	0 = 24-BIT COLOR [Default], 1 = 30-	BIT COLOR, 2 = 36-BIT COLOR			
Example	@GDI,1,1,1 🖃	Getting the color depth of Channel 1			
	@GDI,1,1,1,0 🚽	24-BIT COLOR			
	@SDI,1,1,1,0 🚽	Setting the color depth of Channel 1 to			
		24-BIT COLOR			
	@SDI,1,1,1,0 Completed				
Remarks	The NJR-P01UF/C-R does not support this command.				

@GAF / @SAF	Audio format					
Function	Getting		Setting			
Format	@GAF, device, ch, port	4	@SAF, device, ch, port, format_1,			
			frequency_1 (, format_2,			
			frequency_2···)			
Return value	@GAF, device, ch, port, f	ormat_1,	@SAF, device, ch, port, format_1,			
	frequency_1 (, format_2,		frequency_1 (, format_2,			
	frequency_2···)		frequency_2···)			
Parameter	device: Model	I	· · · · · ·			
	"1" fixed					
	ch: Input channel					
	1 to 512 = Input chan	nel 1 to Input chan	nel 512			
		•	onnector of NJR-P01UF/C-T or from the			
	IP-NINJAR Configurator,					
	port: Input connector					
	"1" fixed					
	format_1 to format_7: Audio format					
		= Dolby Digital,	2 = AAC,			
	3 = Dolby Digital+, 4 = DTS, 5 = DTS-HD,					
	6 = Dolby TrueHD					
	[Default] Only PCM can be output					
	frequency_1 to frequency_7: Maximum sampling frequency					
	0 = OFF, 1 =	= 32 kHz, 2 =	= 44.1 kHz, 3 = 48 kHz,			
	4 = 88.2 kHz, 5 =	= 96 kHz, 6 =	= 176.4 kHz, 7 = 192 kHz			
	[Default] PCM: 48 kHz	z, others: OFF				
	"OFF": Only setting comn	nand (@SAF) can	be used.			
	Maximum settable sampl	ng frequency dep	ends on audio format.			
	Audio format	Maxim	num sampling frequency (kHz)			
	PCM	32/44.1/48/88.2/	/96/176.4/192			
	Dolby Digital	OFF/32/44.1/48				
	AAC	OFF/32/44.1/48	/88.2/96			
	Dolby Digital+	OFF/32/44.1/48				
	DTS	OFF/32/44.1/48				
	DTS-HD	OFF/44.1/48/88				
	Diby TrueHD OFF/44.1/48/88.2/96/176.4/192					
		1 2				
	Getting commands : The	set audio formats	and maximum sampling frequency is			
	retu	rned				
	Setting commands : Send the desired audio formats and the maximum sampling					
	frequencies					

@GAF / @SAF	Audio format (Cont'd)		
Example	@GAF,1,1,1 🚽	Getting the audio format that can be	
		output to Channel 1	
	@GAF,1,1,1,0,7 🖃	Up to PCM 192 kHz	
	@SAF,1,1,1,4,3 🚽	Setting the Channel 1 to output audio up	
		to PCM and DTS 48 kHz	
		(The maximum PCM sampling frequency	
		is not changed.)	
	@SAF,1,1,1,4,3 🚽	Completed	
Remarks	The NJR-P01UF/C-R does not support this command.		

@GSP / @SSP	Speaker configuration					
Function	Getting	Setting				
Format	@GSP, device, ch, port 🚽	@SSP, device, ch, port, number (,				
		speaker_1, speaker_2···)				
Return value	@GSP, device, ch, port, number,	@SSP, device, ch, port, number (,				
	speaker_1 (, speaker_2···) 🚽	speaker_1, speaker_2···)				
Parameter	device: Model					
	"1" fixed					
	ch: Input channel					
	1 to 512 = Input channel 1 to Inp	put channel 512				
	If a command is input from the RS-2	232C connector of NJR-P01UF/C-T or from the				
	IP-NINJAR Configurator, "1" is set (fixed).					
	port: Input connector					
	"1" fixed					
	number: The number of speakers					
	1 to 8 [Default] 2					
	speaker_1 to speaker_8: Speakers					
	0 = Front Left/Right [Default],	1 = Low Frequency Effect,				
	2 = Front Center,	3 = Rear Left/Right,				
		5 = Front Left/Right Center,				
	6 = Rear Left/Right Center,	-				
	8 = Front Left/Right High,	9 = Top Center,				
	10 = Front Center High					

@GSP / @SSP	Speaker configuration (Cont'd)											
Parameter	Getting con	Getting commands: The number of speakers and which speakers will be used is										
	returned											
	Setting commands : If you do not specify the speaker configuration, the following											
	configuration will be applied depending on the set number of speakers											
	οροακοιο											
		speaker										
	number	0	1	2	3	4	5	6	7	8	9	10
	1	OFF	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	2	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	3	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	4	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	5	ON	ON	OFF	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	6	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF	OFF
	7	ON	ON	ON	ON	ON	OFF	OFF	OFF	OFF	OFF	OFF
	8	ON	ON	ON	ON	OFF	OFF	ON	OFF	OFF	OFF	OFF
Example	set automa exceeds the @GSP,1,1,	e setta			-	s retur	ned. Getting	the sp				
	@GSP,1,1,	1,6,0,1	I,2,3 G	J			Channel 1 Six speakers are used:					
							Front Left/Right, Low Frequency Effect,					
							Front C			-		
	@SSP,1,1,	1,8 년					Assign eight speakers to Channel 1:					
							Front Left/Right, Low Frequency Effect, Front Center, Rear Left/Right,					
							Rear Left/Right Center					
	@SSP,1,1,	1,8 🚽					Completed					
	@SSP,1,1,			┛		1	Assign	10 spe	akerst	to Cha	nnel 1:	
						F	Front Left/Right, Rear Left/Right,					
							Front Lo	-				
							Rear Le	-				
		ה					Front L	-				41
	@ERR,1 🖣	L.					The nur		•	kers ex	ceeds	the
Remarks			∩_ D do	oc not	SUDDO		settable		•			
IVEIIIdINS	The NJR-P01UF/C-R does not support this command.											

4.5.2.5 IR control

@GIR / @SIR	IR control					
Function	Getting Setting					
Format	@GIR, device, ch, reserved @SIR, device, ch, reserved, enabled (
Return value	@GIR, device, ch, reserved, enabled 🚽	@SIR, device, ch, reserved, enabled 🚽				
Parameter	device: Model					
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/0	C-R				
	If a command is input from the RS-232C c	onnector of NJR-P01UF/C-T or from the				
	IP-NINJAR Configurator, "1" is set (fixed).					
	ch: Channel					
	1 to 512 = Channel 1 to Channel 512					
	reserved: Reservation					
	"1" fixed					
	enabled: Enabled/Disabled					
	0 = Disabled, 1 = Enabled [Default]					
Example	@GIR,1,1,1 🕘	Getting the IR control enabled/				
		disabled of NJR-P01UF/C-T Channel 1				
	@GIR,1,1,1,1 🕘	Enabled				
	@SIR,2,1,1,0 🖵	Setting the IR control of NJR-P01UF/C-R				
		Channel 1 to be disabled				
	@SIR,2,1,1,0 I Completed					
Remarks	-					

4.5.2.6 RS-232C

@GCTB / @SCTB	RS-232C communication						
Function	Getting	Setting					
Format	@GCTB, device, ch, reserved 🚽	@SCTB, device, ch, reserved, baudrate,					
		databit, stopbit, parity 🖵					
Return value	@GCTB, device, ch, reserved, baudrate,	@SCTB, device, ch, reserved, baudrate,					
	databit, stopbit, parity 🚽	databit, stopbit, parity 🚽					
Parameter	device: Model						
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/	C-R					
	ch: Channel						
	1 to 512 = Channel 1 to Channel 512						
	reserved: Reservation						
	"1" fixed						
	baudrate: Baud rate						
	0 = 4800 bps, 1 = 9600 bps [Defau	0 = 4800 bps, 1 = 9600 bps [Default], 2 = 19200 bps, 3 = 38400 bps,					
	4 = 57600 bps, 5 = 115200 bps						
	databit: Data bit length						
	7 = 7 bit, $8 = 8$ bit [Default]						
	stopbit: Stop bit						
	1 = 1 bit [Default], 2 = 2 bit						
	parity: Parity check						
	0 = NONE [Default], 1 = ODD, 2 = E\	0 = NONE [Default], 1 = ODD, 2 = EVEN					
Example	@GCTB,1,1,1 🖵	Getting the RS-232C communication					
		setting of NJR-P01UF/C-T Channel 1					
	@GCTB,1,1,1,4,8,1,0 🚽	- Baud rate : 57600 bps					
		- Data bit length : 8 bit					
		- Stop bit : 1 bit					
		- Parity check : NONE					
	@SCTB,1,1,1,4,8,1,0 🚽	Setting the RS-232C communication					
		setting of NJR-P01UF/C-T Channel 1 as					
		follows:					
		- Baud rate : 57600 bps					
		- Data bit length : 8 bit					
		- Stop bit : 1 bit					
		- Parity check : NONE					
	@SCTB,1,1,1,4,8,1,0 I	Completed					
Remarks	This command can be input only via the NJR-CTB command server.						
	Values for the control mode are fixed and cannot be changed.						

4.5.2.7 LAN

@GIP / @SIP	LAN					
Function	Getting	Setting				
Format	@GIP, device, ch, reserved 🚽	@SIP, device, ch, reserved, mode, ip,				
		mask, gateway 🚽				
Return value	@GIP, device, ch, reserved, mode, ip,	@SIP, device, ch, reserved, mode, ip,				
	mask, gateway 🖵	mask, gateway 🖵				
Parameter	device: Model					
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF	/C-R				
	ch: Channel					
	1 to 512 = Channel 1 to Channel 512					
	reserved: Reservation					
	"1" fixed					
	mode: Mode					
	0 = Automatic (DHCP) [Default], 1 =	static				
	"0" is selected, the following three parame	eters will be invalid.				
	ip: IP address					
	0 to $255 = 8$ bit (in decimal) x 4 combinations					
	[Default] Getting automatically					
	mask: Subnet mask					
	0 to 255 = 8 bit (in decimal) x 4 combinations					
	[Default] Getting automatically					
	gateway: Default gateway					
	0 to $255 = 8$ bit (in decimal) x 4 combinations					
	[Default] Getting automatically					
Example	@GIP,1,1,1 🚽	Getting the LAN setting of				
·		NJR-P01UF/C-T Channel 1				
	@GIP,1,1,1,1,192.168.3.2,255.255.255.	- Mode : Static				
	0,192.168.3.254 🚽	- IP address : 192.168.3.2				
		- Subnet mask : 255.255.255.0				
		- Default gateway : 192.168.3.254				
	@SIP,1,1,1,1,192.168.3.2,255.255.255.	Setting the LAN of NJR-P01UF/C-T				
	0,192.168.3.254 🚽	Channel 1 as follows:				
		- Mode : Static				
		- IP address : 192.168.3.2				
		- Subnet mask : 255.255.255.0				
		- Default gateway : 192.168.3.254				
	@SIP,1,1,1,1,192.168.3.2,255.255.255.	Completed				
	0,192.168.3.254 🚽					
Remarks	This command can be input only via the N	NJR-CTB command server.				
	If the LAN setting is changed, the communication may be disabled.					
	Change the environmental settings based on the NJR-P settings.					

@GMC	MAC address			
Function	Getting	Getting		
Format	@GMC, device, ch, reserved 🚽			
Return value	@GMC, device, ch, reserved, mac 🖵			
Parameter	device: Model			
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF	-/C-R		
	ch: Channel			
	1 to 512 = Channel 1 to Channel 512	1 to 512 = Channel 1 to Channel 512		
	reserved: Reservation			
	"1" fixed			
	mac: MAC address			
	00 to FF = 8 bit (in hex) x 6 combinations			
Example	@GMC,1,1,1 🚽	Getting the MAC address of		
		NJR-P01UF/C-T Channel 1		
	@GMC,1,1,1,D88039A6D9DF 🕘	D8:80:39:A6:D9:DF		
Remarks	This command can be input only via the NJR-CTB command server.			

4.5.2.8 Advanced setting

@CLRC	Initialization		
Function	Setting		
Format	@CLRC, device, ch, reserved 🚽		
Return value	@CLRC, device, ch, reserved 🚽		
Parameter	device: Model		
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/C	C-R	
	ch: Channel		
	0 = All channels, 1 to 512 = Channel 1 to Channel 512		
	reserved: Reservation		
	"1" fixed		
Example	@CLRC,1,2,1 🚽	Initializing settings of the NJR-P01UF/C-T	
		Channel 2	
	@CLRC,1,2,1 🖵	Completed	
Remarks	This command can be input only via the NJR-CTB command server.		
	Settings of "4.5.2.1 Input" to "4.5.2.7 LAN"	' will be initialized.	

@RBTC	Reboot		
Function	Setting		
Format	@RBTC, device, ch, reserved 🚽		
Return value	@RBTC, device, ch, reserved 🚽		
Parameter	device: Model		
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF/C	C-R	
	ch: Channel		
	0 = All channels, 1 to 512 = Channel 1 to Channel 512		
	reserved: Reservation		
	"1" fixed		
Example	@RBTC,1,2,1 🖵	Rebooting the NJR-P01UF/C-T	
		Channel 2	
	@RBTC,1,2,1 🚽	Completed	
Remarks	This command can be input only via the N	JR-CTB command server.	

4.5.2.9 Information

@GSS	I/O status		
Function	Getting		
Format	GSS, device, ch, port, mode 🖃		
Return value	GSS, device, ch, port, mode, status_1 (, status_2, status_3···)		
Parameter	device: Model		
	1 = NJR-P01UF/C-T, $2 = NJR-P01UF/C-R$		
	ch: Channel		
	1 to 512 = Channel 1 to Channel 512		
	If a command is input from the RS-232C connector of NJR-P or from the IP-NINJAR		
	Configurator, "1" is set (fixed).		
	port: Input connector/Output connector		
	"1" fixed		
	mode: Target status		
	For HDMI input connector of NJR-P01UF/C-T:		
	0 = AII of 1 to 4,		
	1 = Input signal type ^{*1} ,		
	2 = Video input signal format ^{*2} ,		
	3 = Audio input signal format ^{*3} ,		
	$4 = with/without HDCP input^{*4}$		
	For HDMI output connector of NJR-P01UF/C-R:		
	10 = All of 11 to 13,		
	11 = HDCP authentication status ^{$*5$} ,		
	12 = Output signal type ^{*6} ,		
	13 = Error code ^{*7}		
	status_1 to status_4: Status		
	*1 For input signal type, one of the following values is returned.		
	Value Description		
	Hxx HDMI signal is input. xx stands for color depth which is 24, 30, or 36		
	D DVI signal is input.		
	N No signal is input.		
	*2 For format of video input signal		
	Value Description		
	1920 x 1080iSDTV/HDTV/UHDTV signal is input, which returns the		
	59.94Hz format type and vertical synchronous frequency.		
	800 x 600p 60.00Hz Signal having VESA resolution is input, and [Horizontal		
	resolution x Vertical resolution] and vertical		
	synchronous frequency are returned.		
	NO SIGNAL No signal is input.		

@GSS	I/C) status (Co	atus (Cont'd)		
Parameter	*3	For format of audio input signal			
		Val	ue	Description	
		LINEAR PO	CM 48kHz	LPCM signal is input, which returns the sampling	
				frequency.	
		COMPRES	SED	Compressed audio signal (such as Dolby Digital and	
		AUDIO		DTS) is input (Because the NJR-P01UF/C-T does not	
				recognize detailed formats, "COMPRESSED AUDIO" is	
				sent to all compressed audios).	
		NO AUDIO)	No signal is input.	
	*4	For HDCP p	oresence, o	ne of the following values is returned.	
		Val	ue	Description	
		HDCP 1.4	ON	Signal with HDCP 1.4 is input.	
		HDCP 2.2	ON	Signal with HDCP 2.2 is input.	
		HDCP OFF	-	Signal without HDCP is input.	
		NO SIGNA	L	No signal is input.	
	*5	For HDCP a	uthenticatio	on, one of the following values is returned.	
		Val	ue	Description	
		HDCP 1.4		Authenticated with HDCP 1.4	
	SUPPORT				
		HDCP 2.2		Authenticated with HDCP 2.2	
		SUPPORT			
		HDCP NO		Not authenticated, because device that does not	
		SUPPORT		support HDCP is connected or input signal does not have HDCP.	
		HDCP ERF	ROR	Device with HDCP is connected, but the authentication failed.	
		HDCP CHE	ECK NOW	Connection status of sink device was changed, and the status is being checked.	
		UNCONNE	CTED	No sink device is connected.	
	*6 For output signal type, one of the following values is returned.		one of the following values is returned		
	0	Value			
	D DVI signal is output.				
	1				

@GSS	I/O status (Cor	I/O status (Cont'd)			
Parameter		*7 For status of the HDMI output connector, one of the codes below will be returned in			
		order: video output/audio	output.		
Error co		Video output status	Audio output status		
	0	Video is output correctly.	Audio is output correctly.		
	1	_	"@GAM / @SAM		
			Muting/unmuting digital audio output" is set to "ON".		
	2	No source device is connected.			
	3	No video signal is input. No audio signal is input.			
	4	Video output or audio ou	tput of the source device is muted.		
	5	Signal with HDCP is input but the sink device does not support HDCP.			
	6	The source device does (packets) for outputting v	not output the needed information ideo or audio.		
	7	Signal that is not support	ed by Since compressed audio is		
		NJR-P is input.	input, audio cannot be output.		
	9	-	The sink device that does not		
			support audio is connected.		
	В	No sink device is connec	ted.		
	С	CHDCP is being authenticated.DHDCP authentication failed			
	D				
Example	@GSS,1,1,1,0	L L	Getting all input statuses of		
		H30,1920 x 1080p 60Hz, ŀ8kHz, HDCP 1.4 ON 🖃	NJR-P01UF/C-T Channel 1 - Input signal type :30-BIT COLOR HDMI		
			- Video input signal : 1080p 60Hz - Audio input signal : LPCM 48kHz - HDCP : 1.4		
	@GSS,2,1,1,1() +	Getting all output statuses of NJR-P01UF/C-R Channel 1		
	@GSS,2,1,1,1(),HDCP 1.4 SUPPORT,	- HDCP authentication : HDCP 1.4		
	H30,00 🚽		- Output signal type :30-BIT COLOR HDMI		
			- Error code: Video and audio are output correctly		
Remarks					

@GES	Monitor EDID	Monitor EDID			
Function	Getting	Getting			
Format	@GES, device, ch, port,	CES, device, ch, port, mode 🚽			
Return value	@GES, device, ch, port,	CES, device, ch, port, mode, status_1 (, status_2, status_3)			
Parameter	device: Model				
	"2" fixed				
	ch: Output channel				
	1 to 512 = Output cha	nnel 1 to Output channel 512			
	If a command is input from	m the RS-232C connector of NJR-P01UF/C-R or from the			
	IP-NINJAR Configurator,	"1" is set (fixed).			
	port: Output connector				
	"1" fixed				
	mode: Target status				
	0 = AII of 1 to 4,				
	$1 = Monitor name^{*1}$,				
	2 = Resolution and do	ot clock ^{*2} ,			
	3 = HDMI support sta	tus, sampling structure, and color depth*3,			
		tus, sampling frequency, bit length, the number of channels,			
	and compressed audio support status ^{*4}				
	status_1 to status_4: Status				
	*1 For monitor name	Description			
	NJR-P01UF-T	A sink device named "NJR-P01UF-T" is connected.			
	UNCONNECTED	No sink device is connected.			
	*2 For resolution and dot	alaak			
	Value	Description			
	1920x1080	A sink device supporting 1920x1080 (resolution) and			
	148.50MHz	148.50 MHz (dot clock) is connected.			
	140.0000112				
	*3 For HDMI support stat	*3 For HDMI support status, sampling frequency, and color depth			
	Value	Description			
	DVI	A sink device that does not support HDMI signal is			
		connected.			
	HDMI-	A sink device supporting HDMI signal is connected.			
	RGB/YCbCr422/	Supported sampling structure (RGB, YCbCr 4:2:2,			
	YCbCr444-24/30BIT	YCbCr 4:4:4, YCbCr4:2:0) and color depth (24, 30, 36)			
	COLOR	are returned.			

@GES	Monitor EDID (Cont'd)			
Parameter	*4 For audio support, sam compressed audio	pling frequency, bi	it length, the number of channels, and	
	Value	Description		
	AUDIO NOT SUPPORT	A sink device tha connected.	at does not support audio signal is	
	LINEAR PCM- 32/44.1/48kHz-16/20 /24BIT-8CHANNEL	Supported sampl 176.4, 192), the r	pporting audio signal is connected. ling frequency (32, 44.1, 48, 88.2, 96, number of bits (16, 20, 24), the number o 8), and compressed audio support ed.	
Example	@GES,2,1,1,0 🚽		Getting the EDID of the sink device	
	@GES,2,1,1,0,NJR-P01U 594.00MHz,HDMI-RGB/Y0 YCbCr444/YCbCr420-24B LINEAR PCM-32/44.1/48k 24BIT-2CHANNEL	F-T,3840x2160 - CbCr422/ - SITCOLOR, -	connected to Channel 1 - Monitor name : NJR-P01UF-T - Resolution : 3840x2160 - Dot clock : 594.00MHz - HDMI : HDMI-RGB/YCbCr422/ YCbCr444/YCbCr420-	
			- Audio 24BIT COLOR - Audio : LINEAR PCM-32/ 44.1/48kHz-16/20/ 24BIT-2CHANNEL	
Remarks	The NJR-P01UF/C-T does	s not support this c	command.	

@GIV	Version			
Function	Getting			
Format	@GIV, device, ch, reserved 🖵			
Return value	@GIV, device, ch, reserved, id, ver 🚽			
Parameter	device: Model	device: Model		
	1 = NJR-P01UF/C-T, 2 = NJR-P01UF	/C-R		
	ch: Channel			
	1 to 512 = Channel 1 to Channel 512			
	If a command is input from the RS-232C connector of NJR-P or from the IP-NIN.			
	Configurator, "1" is set (fixed).			
	reserved: Reservation			
	"1" fixed			
	id : Model number ver : Firmware version			
Example	@GIV,1,1,1 🚽	Getting the product information of		
		NJR-P01UF/C-T Channel 1		
	@GIV,1,1,1, NJR-P01UF-T,1.00 🖃	- Model number : NJR-P01UF-T		
		- Firmware version : 1.00		
Remarks	-			

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