NEXIS

YS-SW41H
Serial Command Manual

Revise

V1.4 新增 Set/Get Dynamic Encoder Property

新增 Set/Get Mixer Property

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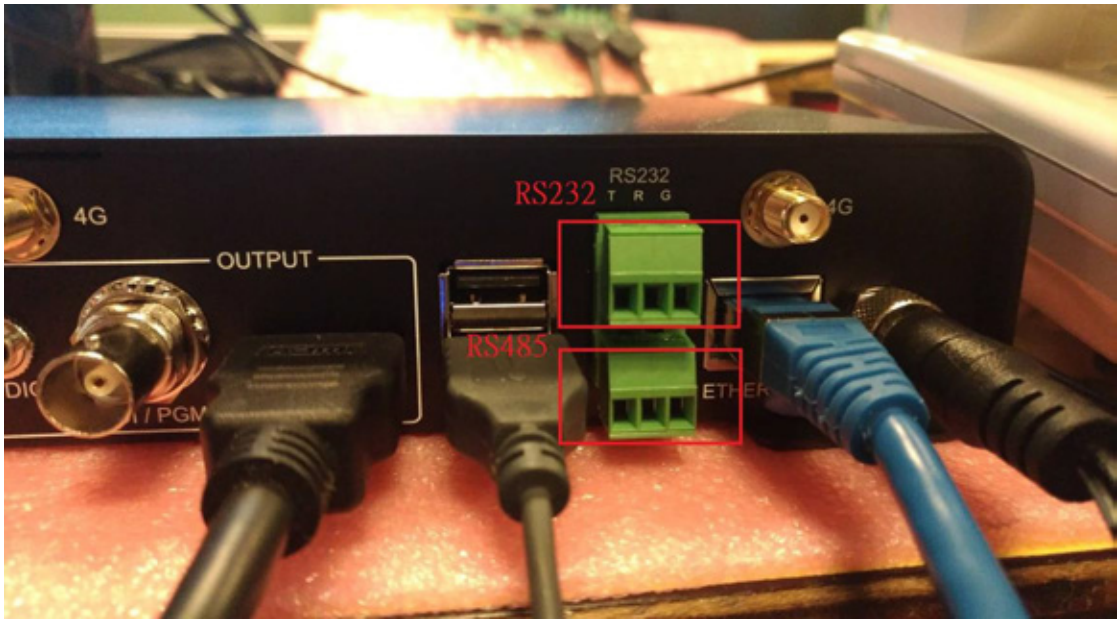
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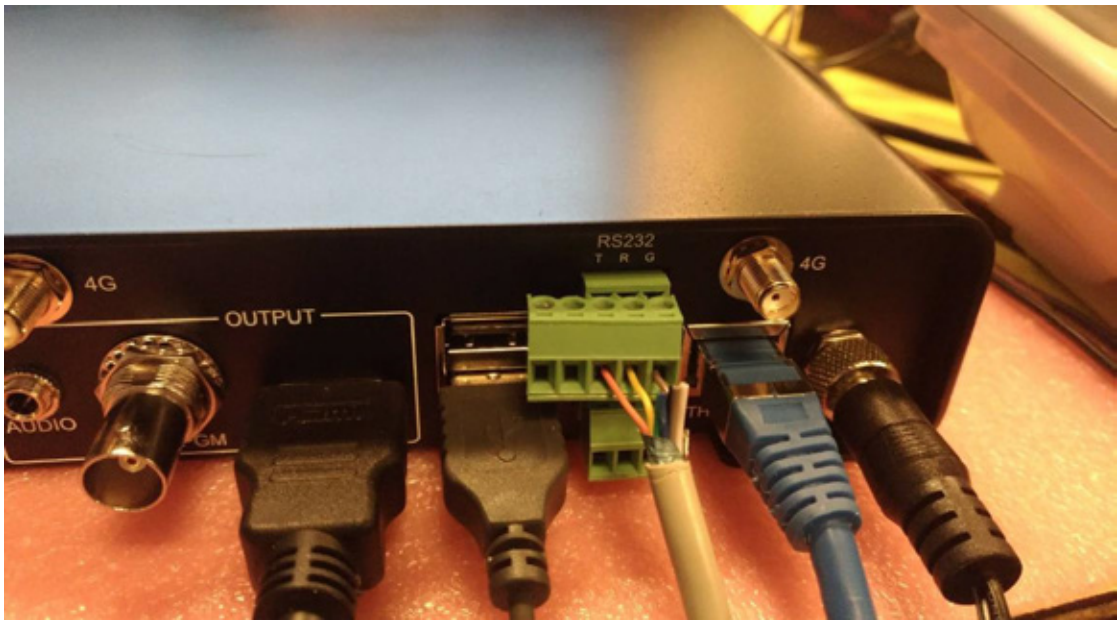
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Serial Setting

Serial speed : 9600 baud rate

Seral interface rs232/rs485





Error Code

Error Code	Description
00	Success
01	Not support
02	Invalid input parameter
03	PGM type doesn’t support
04	Data is Null

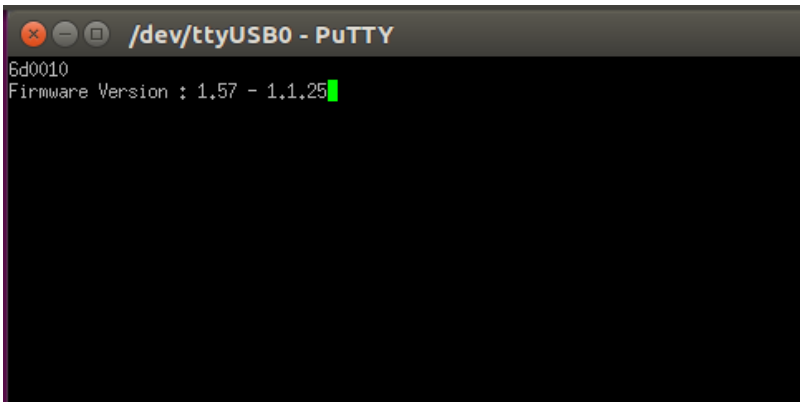
Serial Query Command

3-1. Query Version

Support RS232

Command	Description
6d0010	Return a Firmware Version

Example:



3-2. Get Input Format

Support RS232

Command	Description
6d0022_0000	Get Video Input 1 Format
6d0022_0001	Get Video Input 2 Format
6d0022_0002	Get Video Input 3 Format
6d0022_0003	Get Video Input 4 Format

3-3. Set Output Frame Rate

Support RS232/RS485

Command	Description
6d0020_00000060	Set Output 1= 60 fps
6d0020_00000050	Set Output 1= 50 fps
6d0020_00000030	Set Output 1= 30 fps
6d0020_00000025	Set Output 1= 25 fps
6d0020_00010060	Set Output 2= 60 fps
6d0020_00010050	Set Output 2= 50 fps
6d0020_00010030	Set Output 2= 30 fps
6d0020_00010025	Set Output 2= 25 fps

3-4. Get Output Format

Support RS232

Command	Description
6d0021_0000	Get Video Output 1 Format
6d0021_0001	Get Video Output 2 Format

3-5. Set PGM Type

Support RS232/RS485

Command	Description
6d0040_000000000000	QUARD
6d0040_000100000000	Picture of Picture
6d0040_000200000000	Picture in Picture
6d0040_000300000000	Single Picture
6d0040_000400000000	Picture Loop
6d0040_000500000000	Picture by Picture

Example:

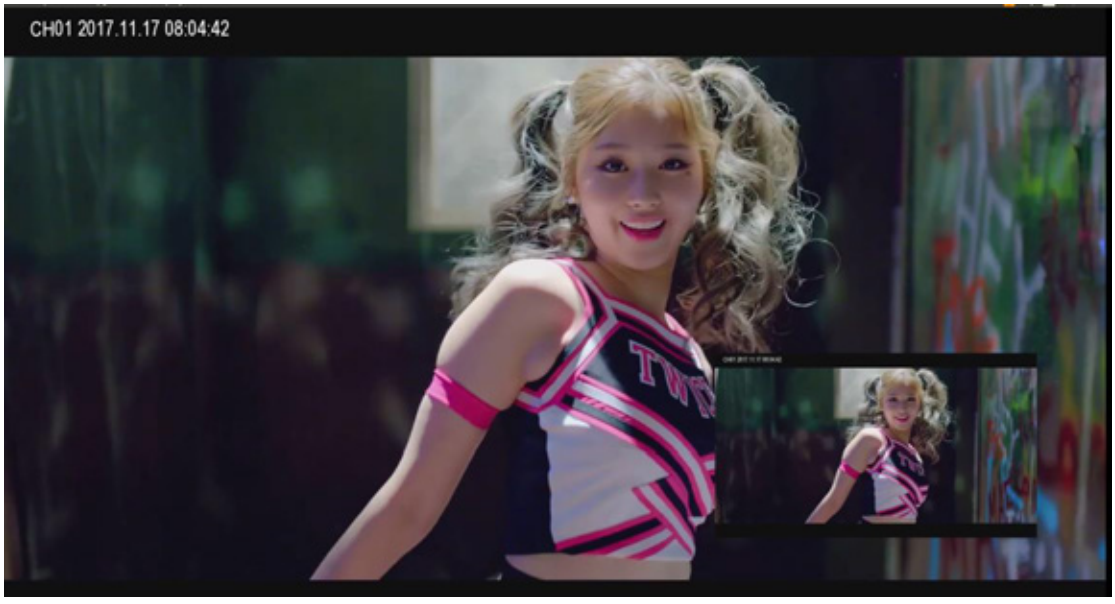
Command
6d0040_000000000000



Command
6d0040_000100000000



Command
6d0040_000200000000



Command
6d0040_000300000000



Command
6d0040_000400000000



3-6. Set POP Property

Support RS232/RS485

First, you must to set Picture of Picture

(6d0040_000100000000) mode before use this method

Command Format
6d0080_00000000000000000000000000

6d0080_0000000000000000000000000000

Byte [0-3] : set a PGM type (only support POP, PIP)

6d0080_0000000000000000000000000000

Byte [4-7] : which channel to set

6d0080_0000000000000000000000000000

Byte [7-11] : set a position-x of window

6d0080_0000000000000000000000000000

Byte [12-15] : set a position-y of window

6d0080_0000000000000000000000000000

Byte [16-19] : set a width of window

6d0080_0000000000000000000000000000

Byte [20-23] : set a height of window

6d0080_0000000000000000000000000000

Byte [20-23] : set a layer of window

3-7. Get POP Property

Support RS232

First, you must to set Picture of Picture

(6d0040_000100000000) mode before use this method

Command	Description
6d0081_0000	Get POP Property of Channel 1
6d0081_0001	Get POP Property of Channel 2
6d0081_0002	Get POP Property of Channel 3
6d0081_0003	Get POP Property of Channel 4

3-8. Set PIP Property

Support RS232/RS485

Command Format
6d0082_00000000000000000000000

6d0082_0000000000000000000000

Byte [0-3] : which channel use to set parent window

6d0082_0000000000000000000000

Byte [4-7] : which channel use to set child window

6d0082_0000000000000000000000

Byte [7-11] : set a position-x of window

6d0082_0000000000000000000000

Byte [12-15] : set a position-y of window

6d0082_0000000000000000000000

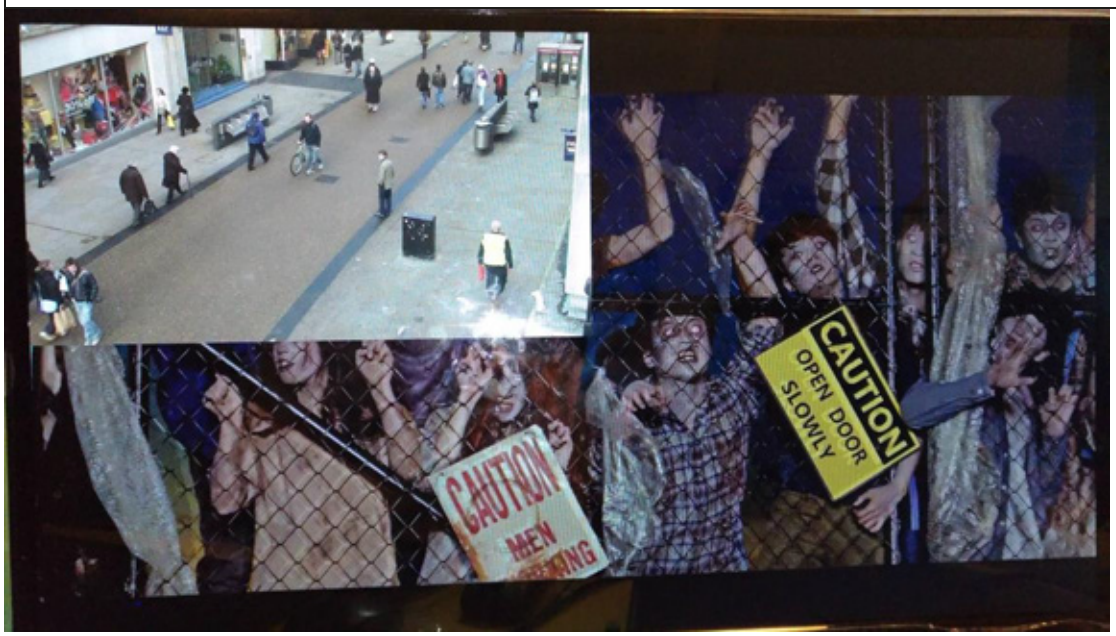
Byte [16-19] : set a width of window

6d0082_0000000000000000000000

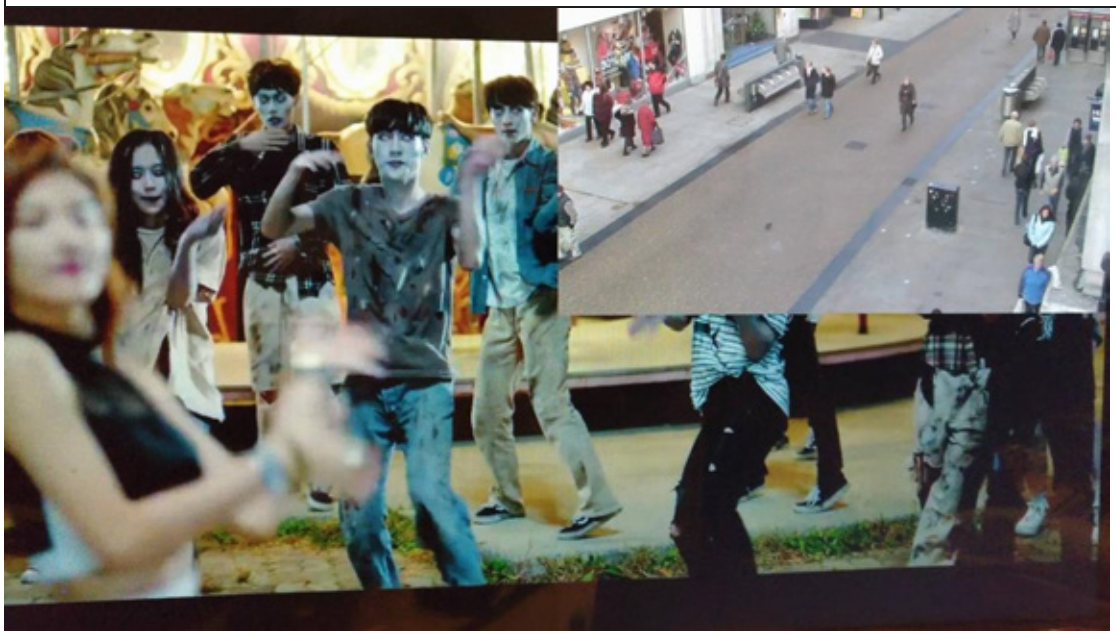
Byte [20-23] : set a height of window

Example:

Command
6d0082_000000010000000009600540



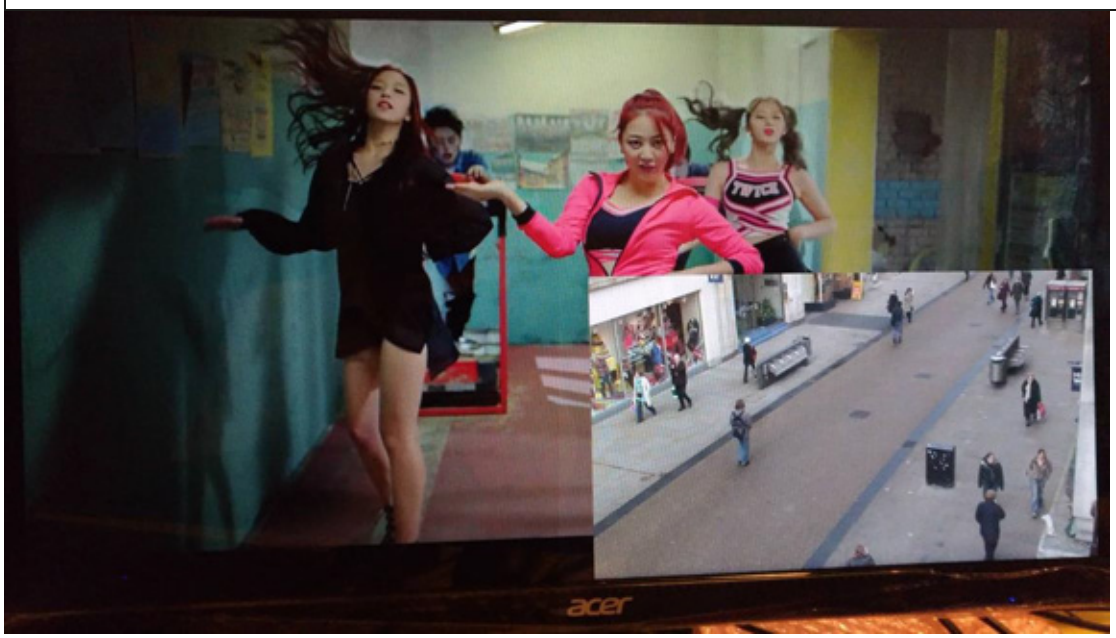
Command
6d0082_000000010960000009600540



Command
6d0082_0000000100000540096005 40



Command
6d0082_0000000109600540096005 40



3-9. Get PIP Property

Support RS232

First, you must to set Picture in Picture

(6d0040_000200000000) mode before use this method

Command	Description
6d0083	Get PIP Property

3-10. Enable/Disable Record Support RS232/RS485

6d1000_00000000

Byte [0-3] : This a bitmap for channel, if set 0003 then channel 1 and channel 2 work up

6d1000_00000000

Byte [4-7] : enable is 0001, disable is 0000

Command	Description
6d1000_00010001	Enable Channel 1 Record
6d1000_00020001	Enable Channel 2 Record
6d1000_00040001	Enable Channel 3 Record
6d1000_00080001	Enable Channel 4 Record
6d1000_00160001	Enable PGM Record
6d1000_00310001	Enable All Channel Record
6d1000_00010000	Disable Channel 1 Record
6d1000_00020000	Disable Channel 2 Record
6d1000_00040000	Disable Channel 3 Record
6d1000_00080000	Disable Channel 4 Record
6d1000_00160000	Disable PGM Record
6d1000_00310000	Disable All Channel Record

3-11. Enable/Disable Streaming Support RS232/RS485

6d1010_00000000

Byte [0-3] : This a bitmap for channel, if set 0003 then channel 1 and channel 2 work up

6d1000_00000000

Byte [4-7] : enable is 0001, disable is 0000

Command	Description
6d1010_00010001	Enable Channel 1 Stream
6d1010_00020001	Enable Channel 2 Stream
6d1010_00040001	Enable Channel 3 Stream
6d1010_00080001	Enable Channel 4 Stream
6d1010_00160001	Enable PGM Stream
6d1010_00310001	Enable All Channel Stream
6d1010_00010000	Disable Channel 1 Stream
6d1010_00020000	Disable Channel 2 Stream
6d1010_00040000	Disable Channel 3 Stream
6d1010_00080000	Disable Channel 4 Stream
6d1010_00160000	Disable PGM Stream
6d1010_00310000	Disable All Channel Stream

3-12. Get Record Status

Support RS232

Command	Description
6d1001_0001	Get Channel 1 Record Status
6d1001_0002	Get Channel 2 Record Status
6d1001_0003	Get Channel 3 Record Status
6d1001_0004	Get Channel 4 Record Status
6d1001_0005	Get Channel 5 Record Status

3-13. Get Stream Status

Support RS232

Command	Description
6d1011_0001	Get Channel 1 Stream Status
6d1011_0002	Get Channel 2 Stream Status
6d1011_0003	Get Channel 3 Stream Status
6d1011_0004	Get Channel 4 Stream Status
6d1011_0005	Get Channel 5 Stream Status

3-14. Enable/Disable OSD

Support RS232/RS485

6d1030_0000000000000

Byte [0-3] : This a bitmap for channel, if set 0003 then channel 1 and channel 2 work up

6d1030_0000000000000

Byte [4-7] : This a bitmap for layer, if set 0003 then layer 1 and layer 2 work up

6d1030_000000000000

Byte [8-11] : enable is 0001, disable is 0000

3-15. Enable Snapshot

Support RS232/RS485

6d1080_00000000

Byte [0-3] : This a bitmap for channel, if set 0003 then channel 1 and channel 2 work up

6d1080_00000000

Byte [4-7] : BMP is 0001, JPEG is 0000

Command	Description
6d1080_00010000	Channel 1 Snapshot with JPEG
6d1080_00020000	Channel 2 Snapshot with JPEG
6d1080_00040000	Channel 3 Snapshot with JPEG
6d1080_00080000	Channel 4 Snapshot with JPEG
6d1080_00160000	Channel PGM Snapshot with JPEG
6d1080_00010001	Channel 1 Snapshot with BMP
6d1080_00020001	Channel 2 Snapshot with BMP
6d1080_00040001	Channel 3 Snapshot with BMP
6d1080_00080001	Channel 4 Snapshot with BMP
6d1080_00160001	Channel PGM Snapshot with BMP

3-16. Set Dynamic Encoder Property Support RS232/RS485

6d1200_0000000000000000

Byte [0-3] : Which Channel to set encoder property

6d1200_0000000000000000

Byte [4-7] : Which index of encoder to set (0 = main encode, 1 = sub encode)

6d1200_0000000000000000

Byte [8-11] : Set a value of GOP, range from 1 to 120

6d1200_0000000000000000

Byte [12-15] : Set a K-bitrate

3-17. Get Dynamic Encoder Property Support RS232

6d1201_0000000000000000

Byte [0-3] : Which Channel to get encoder property

6d1201_0000000000000000

Byte [4-7] : Which index of encoder to get (0 = main encode, 1 = sub encode)

3-18. Set Mixer Property

Support RS232/RS485

6d1400_0000000000000000000000000000000000

Byte [0-3] : Which mixer type to set Example : 0010 = Mixer mode

Byte [4-7] : Volume of Embedded Input 1 Data Range : 0000 - 0255

Byte [8-11] : Volume of Embedded Input 2 Data Range : 0000 - 0255

Byte [12-15] : Volume of Embedded Input 3 Data Range : 0000 - 0255

Byte [16-19] : Volume of Embedded Input 4 Data Range : 0000 - 0255

Byte [20-23] : Volume of Line in Input 1 Data Range : 0000 - 0255

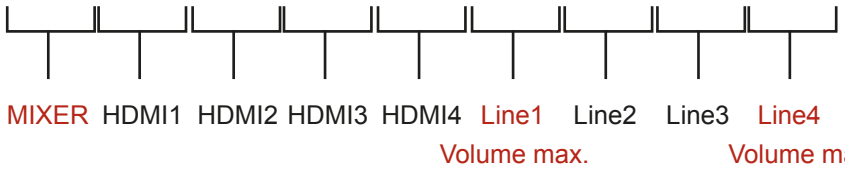
Byte [24-27] : Volume of Line in Input 2 Data Range : 0000 - 0255

Byte [28-31] : Volume of Line in Input 3 Data Range : 0000 - 0255

Byte [32-36] : Volume of Line in Input 4 Data Range : 0000 - 0255

Example

6d1400_0010000000000000000025500000000255



3-19. Get Mixer Property

Support RS485

6d1401_0000000000000000000000000000000000