

# ANT-36100 “Output OSD” API commands

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This document is for the OSD setting on the webpage “Output OSD” of the ANT-36100 decoder.

This is an addendum to ANT-36000\_Configuration Parameters\_v1.1.pdf, which is currently located in folder - <https://downloads.antrica.com/Decoders/ANT-36100/SDK/>

Direct link - [https://downloads.antrica.com/Decoders/ANT-36100/SDK/ANT-36000\\_Configuration%20Parameters\\_v1.1.pdf](https://downloads.antrica.com/Decoders/ANT-36100/SDK/ANT-36000_Configuration%20Parameters_v1.1.pdf)

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## Document info

Version	date	author	Comments
0.1	30-Jul-25	David M	Initial draft with f/w V14.505B01_T913

# 1. Output OSD API commands

## 1.1. User-defined Burn-in OSD

ETC\_DECUSEROSDSTRINGx\_CHy  
 ETC\_DECUSEROSDXx\_CHy  
 0~1000  
 ETC\_DECUSEROSDYx\_CHy  
 0~1000  
 ETC\_DECUSEROSDFONTSIZEx\_CHy  
 12~84  
 ETC\_DECUSEROSDCOLORx\_CHy  
 0 = White, 1 = Gray1, 2 = Gray2, 3 = Gray3  
 4 = Black, 5 = Red, 6 = Green, 7 = Blue, 8 = Yellow  
 9 = Orange  
 ETC\_DECUSEROSDENABLEx\_CHy  
 0 = uncheck  
 1 = check

x = string 1-8 (represented by 0-7)  
 y= channel 1-4 (represented by 0-3)

### 1.1.1. User-defined Burn-in OSD example

Equation 1 : example of User-defined Burn-in OSD API command

http://192.168.0.146/httpapi/WriteParam?action=writeparam&ETC\_DECUSEROSDSTRING1\_CH0=test%20TEXT&ETC\_DECUSEROSDX1\_CH0=289&ETC\_DECUSEROSDY1\_CH0=489&ETC\_DECUSEROSDFONTSIZE1\_CH0=77&ETC\_DECUSEROSDCOLOR1\_CH0=7&ETC\_DECUSEROSDENABLE1\_CH0=1"

Individual commands used in Equation 1.

ETC\_DECUSEROSDSTRING1\_CH0=test%20TEXT  
 ETC\_DECUSEROSDX1\_CH0=289  
 ETC\_DECUSEROSDY1\_CH0=489  
 ETC\_DECUSEROSDFONTSIZE1\_CH0=77  
 ETC\_DECUSEROSDCOLOR1\_CH0=7  
 ETC\_DECUSEROSDENABLE1\_CH0=1

Shown in Figure 1 is the webpage configuration after this command is sent

Figure 1 : User-defined Burn-in OSD example

No.	String	X-Coord (0~1000)	Y-Coord (0~1000)	Font Size (12~84)	Color	Enable
1		0	0	12	White	<input type="checkbox"/>
2	test TEXT	289	489	77	Blue	<input checked="" type="checkbox"/>
3		0	0	12	White	<input type="checkbox"/>
4		0	0	12	White	<input type="checkbox"/>
5		0	0	12	White	<input type="checkbox"/>
6		0	0	12	White	<input type="checkbox"/>
7		0	0	12	White	<input type="checkbox"/>
8		0	0	12	White	<input type="checkbox"/>

Disable the User OSD which is mapping with Operation OSD.  
 Reserved keyword will be replaced.(%RA% -> Remote Address)

## 1.2. Operation OSD

ETC\_OPEROSDWAITTIME<sub>x</sub>\_CH<sub>y</sub>

- 0 = Immediately
- 1 = 1 Second
- 2 = 3 Seconds
- 3 = 5 Seconds
- 4 = 10 Seconds
- 5 = 30 Seconds
- 6 = 60 Seconds

ETC\_OPEROSDDISPLAY<sub>x</sub>\_CH<sub>y</sub>

- 0 = Freeze
- 1 = Black Screen
- 2 = Blue Screen

ETC\_OPEROSDINDEX<sub>x</sub>\_CH<sub>y</sub>

- 0 = off
- 1~8 = User-Defined OSD#1 ~ 8

x = "function"

- 0 = At disconnect
- 1 = At Videoloss
- 2 = NoData
- 3 = At Try Connecting

y = channel 1-4 (represented by 0-3)

### 1.2.1. Operation OSD example

*Equation 2 : example of Operation OSD API command*

[http://192.168.0.146/httpapi/WriteParam?action=writeparam&ETC\\_OPEROSDWAITTIME2\\_Ch0=4&ETC\\_OPEROSDDISPLAY2\\_CH0=2&ETC\\_OPEROSDINDEX2\\_CH0=6](http://192.168.0.146/httpapi/WriteParam?action=writeparam&ETC_OPEROSDWAITTIME2_Ch0=4&ETC_OPEROSDDISPLAY2_CH0=2&ETC_OPEROSDINDEX2_CH0=6)

Individual commands used in Equation 2.

ETC\_OPEROSDWAITTIME2\_Ch0=4  
ETC\_OPEROSDDISPLAY2\_Ch0=2  
ETC\_OPEROSDINDEX2\_Ch0=6

Shown in Figure 2 is the webpage configuration after this command is sent

*Figure 2 : Operation OSD example*

Operation OSD			
	Wait Time	Display	User OSD
At Disconnect	5 Sec	Freeze	Off
At Video Loss	5 Sec	Freeze	Off
At No Data	10 Sec	Blue Screen	User-Defined OSD#6
At Try Connecting	5 Sec	Freeze	Off

### 1.3. Current State OSD

Parameters	Values	Description
ETC_STATEOSDX <sub>x</sub> _CH0 ETC_STATEOSDX <sub>x</sub> _CH1 ETC_STATEOSDX <sub>x</sub> _CH2 ETC_STATEOSDX <sub>x</sub> _CH3	<unsigned integer> 0~1000	[Decoding State > X-Coord] Set the X coordinate of the Decoding State.
ETC_STATEOSDY <sub>x</sub> _CH0 ETC_STATEOSDY <sub>x</sub> _CH1 ETC_STATEOSDY <sub>x</sub> _CH2 ETC_STATEOSDY <sub>x</sub> _CH3	<unsigned integer> 0~1000	[Decoding State > Y-Coord] Set the Y coordinate of the Decoding State.
ETC_STATEOSDFONTSIZE <sub>x</sub> _CH0 ETC_STATEOSDFONTSIZE <sub>x</sub> _CH1 ETC_STATEOSDFONTSIZE <sub>x</sub> _CH2 ETC_STATEOSDFONTSIZE <sub>x</sub> _CH3	<unsigned integer> 12~84	[Decoding State > Font Size] Set the Font Size of the Decoding State.
ETC_STATEOSDCOLOR <sub>x</sub> _CH0 ETC_STATEOSDCOLOR <sub>x</sub> _CH1 ETC_STATEOSDCOLOR <sub>x</sub> _CH2 ETC_STATEOSDCOLOR <sub>x</sub> _CH3	<unsigned integer> 0~9	[Decoding State > Colour] Set the OSD Colour of the Decoding State. 0 = White, 1 = Gray1, 2 = Gray2, 3 = Gray3, 4 = Black, 5 = Red, 6 = Green, 7 = Blue, 8 = Yellow, 9 = Orange
ETC_STATEOSDENABLE <sub>x</sub> _CH0 ETC_STATEOSDENABLE <sub>x</sub> _CH1 ETC_STATEOSDENABLE <sub>x</sub> _CH2 ETC_STATEOSDENABLE <sub>x</sub> _CH3	<unsigned integer> 0~1	[Decoding State > Enable] Set whether the Decoding State is enabled. 0: Uncheck (disabled) / 1: Check (enabled)

Where x = 0 - 4 for  
 0 = Decoding State  
 1 = Recording State  
 2 = Local SystemID  
 3 = Remote SystemID / List Name  
 4 = Time

### 1.3.1. Current State OSD – example #1

Equation 3 : example of Current State OSD

http://192.168.150.115/httpapx/WriteParam?action=writeparam&ETC\_STATEOSDX0\_CH0=150&TC\_STATEOSDY0\_CH0=235&ETC\_STATEOSDFONTSIZE0\_CH0=56&ETC\_STATEOSDCOLOR0\_CH0=7&ETC\_STATEOSDENABLE0\_CH0=1

Individual commands used in Equation 3.

ETC\_STATEOSDX0\_CH0=150  
 ETC\_STATEOSDY0\_CH0=235  
 ETC\_STATEOSDFONTSIZE0\_CH0=56  
 ETC\_STATEOSDCOLOR0\_CH0=7  
 ETC\_STATEOSDENABLE0\_CH0=1

Shown in

Figure 3 is the webpage configuration after this command is sent

Figure 3 : Current State OSD example

The screenshot shows a web interface for configuring OSD. At the top, there are tabs for Channel#1, Channel#2, Channel#3, and Channel#4. Channel#1 is selected and highlighted with a red box. Below the tabs are three main sections:

- User-defined Burn-in OSD:** A table with 8 rows. Each row has columns for No., String, X-Coord (0-1000), Y-Coord (0-1000), Font Size (12-84), Color (White), and Enable. All values are currently set to 0, 0, 30, White, and disabled.
- Operation OSD:** A table with columns for Wait Time, Display, and User OSD. It lists settings for 'At Disconnect', 'At Video Loss', 'At No Data', and 'At Try Connecting'.
- Current State OSD:** A table with columns for State OSD, X-Coord (0-1000), Y-Coord (0-1000), Font Size (12-84), Color, and Enable. The 'Decoding State' row is highlighted with a red box, showing X-Coord: 150, Y-Coord: 235, Font Size: 56, Color: Blue, and Enable: checked.

### 1.3.2. Current State OSD – example #2

Equation 4 : example #2 of Current State OSD

http://192.168.150.115/httpapx/WriteParam?action=writeparam&ETC\_STATEOSDX2\_CH2=130&TC\_STATEOSDY2\_CH2=450&ETC\_STATEOSDFONTSIZE2\_CH2=40&ETC\_STATEOSDCOLOR2\_CH2=5&ETC\_STATEOSDENABLE2\_CH2=0

Individual commands used in Equation 4.

ETC\_STATEOSDX2\_CH2=130  
 ETC\_STATEOSDY2\_CH2=450  
 ETC\_STATEOSDFONTSIZE2\_CH2=40  
 ETC\_STATEOSDCOLOR2\_CH2=5  
 ETC\_STATEOSDENABLE2\_CH2=0

Shown in Figure 4 is the webpage configuration after this command is sent.

Figure 4 : Current State OSD example #2

The screenshot shows a configuration interface for Channel#3. It includes three main sections: User-defined Burn-in OSD, Operation OSD, and Current State OSD.

**User-defined Burn-in OSD**

No.	String	X-Coord (0~1000)	Y-Coord (0~1000)	Font Size (12~84)	Color	Enable
1		0	0	30	White	<input type="checkbox"/>
2		0	0	30	White	<input type="checkbox"/>
3		0	0	30	White	<input type="checkbox"/>
4		0	0	30	White	<input type="checkbox"/>
5		0	0	30	White	<input type="checkbox"/>
6		0	0	30	White	<input type="checkbox"/>
7		0	0	30	White	<input type="checkbox"/>
8		0	0	30	White	<input type="checkbox"/>

Disable the User OSD which is mapping with Operation OSD.  
 Reserved keyword will be replaced. (%RA% -> Remote Address)

**Operation OSD**

	Wait Time	Display	User OSD
At Disconnect	3 Sec	Freeze	Off
At Video Loss	3 Sec	Freeze	Off
At No Data	3 Sec	Freeze	Off
At Try Connecting	3 Sec	Freeze	Off

**Current State OSD**

State OSD	X-Coord (0~1000)	Y-Coord (0~1000)	Font Size (12~84)	Color	Enable
Decoding State	0	0	30	White	<input type="checkbox"/>
Recording State	0	0	30	White	<input type="checkbox"/>
Local SystemID	130	450	40	Red	<input type="checkbox"/>
Remote SystemID / List Name	0	0	30	White	<input type="checkbox"/>
Time	0	0	30	White	<input type="checkbox"/>