## DVX8044 commands v5.30

## Document updates :

v1.00 : DB : 2010.07.26 : initial release for DVX8044 v5.00
v1.01 : DB : 2010.10.08 : update for DVX8044 v5.10
v1.02 : DB : 2011.01.10 : update for DVX8044 v5.20
v1.03 : DB : 2011.04.26 : update for DVX8044 v5.30

## Short guide :

## A1: Introduction

If you need to use your own Software Control program from a PC or WORKSTATION with an RS-232 or LAN port, the device allows communication through an ASCII code protocol.
The device treats any character that it receives on the RS-232 or LAN as a possible command but only accepts legal commands.
There is no starting/ending code needed in a command string.
A command does not require any special character before or after it. (It is not necessary to press "ENTER" on the keyboard).
When the device receives a valid command, it will execute the command. Then it will send back the status of the parameters that have changed due to this command. (a command can return)

If the command is correct but cannot be executed (no signal on the selected input ...) the device will just sends back the current status of the corresponding parameter.
If the command is invalid (value out of range, invalid command, syntax error ...), an error response will be returned to the control device.
All responses returned to the control device end with a carriage return <CR> and a line feed <LF> signaling the end of the response character string (see chapter A-3).

## A2: Commands structure

Commands are made of numerical values followed by the command characters (one or two alphabetical letters).
Usually, same characters (letters) are used for [read command] and for [write command]
The indexes are defined number indicating on which the command apply. For example a layer number or an input number or a preset ... They are separated with a comma. There are commands without index and others with up to 3 indexes.

## Each index is followed by a comma character.

a [write command] is made of indexes followed by the numerical value followed by the command characters.
Write command $=[[$ index, $] ..]+$. Value + Character (s) code (s)
a [read command] is made of indexes followed immediately by the command characters. (no numerical value)
Read command $=[[$ index, $] ..$.$] Character (s) code (s)$

## A3: Examples

1) Command without index: SWITCHER_MODE

Command to set the switcher mode to mixer mode : OCM
Answer: CMO<CR><LF>
2) Command with 1 index : OFORMAT
Command to set the Main output format to XGA : 0, 12OF
Answer: OF0,12<CR><LF> which mean that the output format is now $1024 \times 768$
3) Command with 2 indexes : PE_INPUTNUM

Command to set the input 4 displayed in Layer A of Next Preset : 1, 1,4 IN
Answer : IN1,1,4<CR><LF> which mean that the layer A of the next preset will display the input 4 signal
4) Read command without index : TAKEAVA

Read command to know if the TAKE command is available : TA
Answer : TA1<CR><LF> which mean that the device is ready to accept the TAKE command
5) Read command with 2 indexes : SET_ASPECT_RATIO_OUT

Read command to know how is displayed a DVI signal plugged on the inpt $4: 3,1, \mathrm{sB}$
Answer : sB3, $1,2<C R><L F>\quad$ which mean that the DVI plug on input 4 is diplayed full screen

## A4: Error codes

| Answer : $\mathrm{E} 10<C R><L F>$ | which mean invalid command |
| :--- | :--- |
| Answer : $\mathrm{E} 11<C R><L F>$ | which mean index value error (index value out of range) |
| Answer: $: \mathbf{E 1 2 < C R > < L F >}$ | which mean index number error (too or few indexes) |

## Document notation :

Some commands are only available as [Read command], they are status and are colored in blue as this line.
Some commands are colored in yellow as this line to indicate they were added or modified in this version.


| ${ }_{\text {group }}$ | nomo |  | 部 | ${ }^{\text {command osecripion }}$ |  | $\stackrel{5}{5}$ | 1 | Ootaud | vatu |  | matax 11 | maxax 12 | maxax ${ }^{\text {a }}$ | $\frac{8}{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | N_USR_format | iU | iu | user corrected input tormat | RdWr 0 |  | 41 |  |  | $0=$ Input 1 $1=$ Input2 $2=$ input3 $3=$ input 4 $4=$ input5 $5=$ input 6 $6=$ input7 $7=$ Input 8 |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { onlp Plug } \\ 2=\text { SSl Plug } \end{array} \end{aligned}$ |  |  |  |
|  | N_TYPE | ik | ik | input signal type | RdIWr 0 |  | 17 | 13 |  |  |  | $\begin{aligned} & \begin{array}{l} =\text { Analog Plug } \\ \text { and } \\ 2=\text { Sol Pliplug } \end{array} \\ & \hline \end{aligned}$ |  |  |  |
|  | N_SYNC_LOAD | ${ }^{17}$ |  | 75 ohms analog H sync load | RdWr ${ }^{0}$ |  |  | 0 | ( $\begin{aligned} & 0=\text { High } \mathrm{Z} \\ & 1=75 \text { hms load }\end{aligned}$ | $0=$ Input1 1 $2=$ Input 3 3 Input 4 5 Input 5 6 $=$ Input $7=$ Input 7 |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { DVIP Plug } \\ & 2=\text { = D P Plug } \end{aligned}$ |  |  |  |
|  | N_USED | iu | iu | used input | RdW ${ }^{\text {a }}$ |  |  |  | $0=$ unused input | $0=$ Input 1 $1=$ Input 2 $2=$ Input 3 $3=$ Input 4 $4=$ Input5 $5=$ Input6 $6=$ Input 7 $7=$ Input 8 |  | $\begin{aligned} & 0=\text { Analog plug } \\ & \begin{array}{l} 1=\text { ovlplug } \\ 2=\text { SDI Plug } \end{array} \end{aligned}$ |  |  |  |
|  | N_SD_STD | is |  | input vidoo standard | RdW ${ }^{\text {a }}$ |  |  | 0 | $0=$ Auto $1=$ NTSC $(\mathrm{M}, \mathrm{J})$ $2=$ PAL $(\mathrm{BDGHIN})$ $3=$ PAL (M) $4=$ PAL (M-Combination) $5=$ NTSC 4.43 $6=$ SECAM $7=$ PAL 60 |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { OVIFPlug } \\ & 2=\text { SDI Illug } \end{aligned}$ |  |  |  |
|  | N_CROPPING | ic |  | activate input finder for cropping | RdIWr 0 |  |  | 0 |  |  |  | $\begin{aligned} & 0=\text { Analog Pug } \\ & \begin{array}{l} 1=\text { Dvplugu } \\ 2=\text { SDI Plugg } \end{array} \end{aligned}$ |  |  |  |
|  | N_HDCP_ENABLE | ith |  | enable DVV-D input HDCP answer | RadWr ${ }^{\text {O }}$ |  |  | 1 |  | $0=$ Input1 $1=$ Input2 $2=$ Input3 $3=$ Input4 |  |  |  |  |  |
|  | N_CROP_MODE |  |  | input finder selection | RdW ${ }^{\text {a }}$ |  |  |  |  |  |  |  |  |  |  |


| group | Nomo |  | 竬 | Command Description |  | 5 | 景 |  | vato | maxext | matext2 | ${ }^{\text {maxex }}$ 3 | ${ }_{\substack{\text { Modifications } \\ \mathrm{v} .20050 .30}}^{\text {cosem }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | _REMAPPING | ir |  | input processing pending | Rd | 0 |  | 0 |  |  |  |  |  |
| EDID | O-Fornat |  |  | IUPreatered format | wrr |  |  |  |  |  |  |  |  |
|  | EIID_RATE | ER | ER | EIID preferered frame frequency | RdNW | ${ }^{6}$ | 10 | 8 | $0=$ Custom Field Rate $1=23.9 \mathrm{~Hz}$ $2=24 \mathrm{~Hz}$ $3=25 \mathrm{~Hz}$ $4=29.97 \mathrm{~Hz}$ $5=30 \mathrm{~Hz}$ $6=50 \mathrm{~Hz}$ $7=59.9 \mathrm{~Hz}$ $8=60 \mathrm{~Hz}$ 9072 Hz $10=75 \mathrm{~Hz}$ |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { Oviplug } \\ 2=\text { Sol Plug } \end{array} \\ & \hline \end{aligned}$ |  |  |
| $\begin{aligned} & \text { nnut } \\ & \text { status } \end{aligned}$ | SIG_HPOL | ${ }^{\text {sh }}$ |  | puth sync polarit |  |  |  |  | ${ }^{\text {a }}$ |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog plug } \\ 1=\text { Ovipug } \\ 2=\text { Sol Plug } \end{array} \end{aligned}$ |  |  |
|  | sII_VPoL | sv | sv | input V sync polarity | Rd | 0 | ${ }^{1}$ | 0 | $0=$ Negativ Sync $1=$ Posivive Sync |  |  |  |  |
|  | SIG_SYNC_TYPE | sk | sk | input synctype | Rd | 0 |  | 0 | $0=H \& V$ Sync $1=$ TTL Composite Sync <br> $2=$ Analog composite Sync $3=$ Synchro on green $(\mathrm{SOG}$ <br> 3 = Synchro on green (SOG) |  | $\begin{aligned} & 0=\text { Analog Pug } \\ & \begin{array}{l} 1=\text { Dulpug } \\ 2=\text { SDI Plug } \end{array} \end{aligned}$ |  |  |
|  | SIG_FREQ_FIELD | sf | sf | input trame frequency | Rd | 0 | 65535 | 0 | frame frequency in $11 / 100 \mathrm{~Hz}$ unit | $0=$ Input 1 $1=$ Input 2 $2=$ Input 3 $3=\operatorname{Input} 4$ $4=$ Input5 $5=$ Input 6 $6=$ Input 7 $7=$ Input 8 | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Pug } \\ 1=\text { Dulp } \\ 2=\text { SDIIIIGg } \end{array} \\ & \hline \end{aligned}$ |  |  |
|  | SIG_FREQ_LINE | s1 | st | input tine trequency | Rd | 0 | 65535 | 0 | line frequency in $\times 100 \mathrm{~Hz}$ unit | $0=\operatorname{Input} 1$ $1=\operatorname{Input} 2$ $2=\operatorname{Input} 3$ $3=\operatorname{Input} 4$ $4=\operatorname{Input5}$ $5=\operatorname{Input} 6$ $6=\operatorname{Input} 7$ $7=\operatorname{Input} 8$ | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { Dulp } \\ 2=\text { Sl Plug } \end{array} \end{aligned}$ |  |  |
|  | SII_COMPLETE | sc | ${ }^{\text {sc }}$ | input scan complete | Rd | 0 |  | 0 | $1=$ input scan operations complete | $0=\operatorname{Input} 1$ $1=\operatorname{Input} 2$ $2=\operatorname{Input} 3$ $3=\operatorname{Input} 4$ $4=\operatorname{Input5}$ $5=\operatorname{Input6}$ $6=\operatorname{Input} 7$ $7=\operatorname{Input}$ |  |  |  |



| ${ }_{\text {group }}$ | namo | $\begin{array}{\|l\|} \hline \frac{0}{6} \\ \frac{1}{8} \end{array}$ | 章 |  | $C^{\text {command oscripion }}$ | Read | ¢ | 1 | $\substack{\text { Oefutut } \\ \text { value }}$ |  | valuo |  | maxax 1 | matax 12 | maxax 13 | $\frac{8}{2}$ | ${ }_{\substack{\text { Mosifications } \\ \text { v.20 } 0.30}}^{\text {c. }}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | SET_HPOS | SH | sh |  | input signa horizonal position | RdIWr 0 |  | 2048 | 1024 |  | 1024 = neutral |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { DVIPlug } \\ & 2=\text { SII Plug } \end{aligned}$ |  |  |  |
|  | SET_VPOS | sv | sv |  | input signal verical position | RdW ${ }^{\text {a }} 0$ |  | 2048 | 1024 |  | $1024=$ neutral |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { DVV Plugg } \\ & 2=\text { SDI Plug } \end{aligned}$ |  |  |  |
|  | SET_HSIIE | sw | sw |  | input signal horizontal size | RdIWr 10 |  | 4096 | 2048 |  | $2048=$ neutral |  |  | $\begin{aligned} & 0=\text { Analag Plug } \\ & 1=\text { onvolpug } \\ & 2=\text { Sol Piug } \end{aligned}$ |  |  |  |
|  | SET_VSIIE | sh | sh |  | input signal vericial size | RdW ${ }^{\text {a }} 0$ |  | 4096 | 2048 |  | 2048 = neutral |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { DVVIPlug } \\ & 2=\text { SII Plug } \end{aligned}$ |  |  |  |
|  | SET_RRIGHTNESS | sg | sg |  | input signal brighness | RdIWr 0 |  | 255 | ${ }^{128}$ |  | 128 = neutral |  |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1 \\ \text { = Onvpliug } \\ 2=\text { Sil Plugg } \end{array} \end{aligned}$ |  |  |  |
|  | SET_COntrast | sc | sc |  | input signal contrast | RdW ${ }^{\text {a }} 0$ |  | 255 | 128 |  | 128 = neutral |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { oviploug } \\ & 2=\text { Sol Plug } \end{aligned}$ |  |  |  |
|  | SET_COLOR | sr | sr |  | input signal color level | RadWr 0 |  | 255 | 128 |  | 128 = neutral |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { DVI Plug } \\ & 2=\text { SDI Plug } \end{aligned}$ |  |  |  |
|  | SEt_HUE | su |  |  | input signal hue (NTSC only) | RdIWr 0 |  | 255 | 128 |  | 128 = neutral |  |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { oviplug } \\ 2=\text { SDII Plug } \end{array} \end{aligned}$ |  |  |  |
|  | SET_HTOTAL | st |  |  | input ismal total pixel per line | RadWr 2 | 200 | 65535 | 200 |  | Unit: pixels |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & =\begin{array}{l} 1=\text { Onv Plug } \\ 2=\text { SII Plug } \end{array} \end{aligned}$ |  |  |  |
|  | SET_htotalmaxi | ${ }_{s x}$ |  |  | input signal maximum total pixel per line | Rd |  | 65535 | 200 |  | Unit: pixels |  |  | $\begin{aligned} & 0=\text { Analog Plug } \\ & 1=\text { oviplug } \\ & 2=\text { Sil Plug } \end{aligned}$ |  |  |  |
|  | SET_PHASE | ss |  |  | input signal phase | RdWr 0 |  | ${ }^{63}$ | 0 |  | 2 pixels range phase |  |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { oviplug } \\ 2=\text { SDII Plug } \end{array} \end{aligned}$ |  |  |  |
|  | SET_AUTOCAD | sa |  |  | input signal autocontering | RdM ${ }^{\text {a }}$ O |  |  |  |  | (auto clear) |  |  | $\begin{aligned} & \begin{array}{l} 0=\text { Analog Plug } \\ 1=\text { oviplug } \\ 2=\text { SDII Plug } \end{array} \end{aligned}$ |  |  |  |




| soup | nemo | \% | ${ }^{\text {旦 }}$ | command osecripion | Reat | 5 | 1 |  | value | matax 11 | matax 12 | motax 13 | $\frac{8}{2}$ |  |
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|  | PE_CROP_WIN_POS_V | cv | cv | layer cropping V position | RdIWr 10 |  | ${ }^{65535}$ | 32768 | in \%(65535 $=100 \%$ = full top cropping) |  |  |  | 1 |  |
|  | E_CROP_WIN_SIZE_H | cw | cw | layer H cropping size | RdWr 10 |  | 58881 |  | in \% (65535 = 100\%) |  | $0=$ Background Frame $1=$ Layer $2=$ Lay $\quad$ B $3=$ Layer $4=$ Laye $5=0.09$ $6=$ Oogo $7=$ Frame Mask |  | 1 |  |
|  | E_CROP_WIN_SIE_V | cs |  | layer V cropping size | RadWr 10 |  | 58981 |  | in \% (65535 $=100 \%$ ) |  |  |  | 1 |  |
|  | PE_ALPHA | PA | pA | layer transparency | RadWr 10 |  | 255 | 0 | $0=$ opaque, $255=100 \%$ = full trassparency |  |  |  | 1 |  |
|  | PE_BORDER_STYLE | bs |  | border style | RdWr 0 |  |  |  | $0=$ No Brarder $1=$ Edgoost 3 3 = = nhaoto $4=$ Smooth shadow |  | $0=$ Background Frame $1=$ Layer $2=$ Laye $B$ $2=$ Layer C $4=$ Laye $D$ $5=$ Logo $6=$ Logo $6=$ $7=$ Frame Mask |  | 1 |  |
|  | PE_BORDER_COLOR | bc |  | order color | RdIWr 10 |  | 544 | 0 | color number |  | $0=$ Background Frame $1=$ Layer $2=$ Ley $\quad$ B $3=$ Layer $4=$ Laye $5=0.09$ $6=$ Oogo $7=$ Frame Mask |  | 1 |  |
|  | PE_BORDER_ALPHA | bA |  | border trasparency | RdWr 10 |  | 255 | 128 | 255 f full transparency |  |  |  | 1 |  |
|  | PE_BORDER_SIIE_H | ${ }^{\text {bH }}$ | ${ }^{\text {bH }}$ | border H size | RdW ${ }^{\text {a }}$ O |  | ${ }^{127}$ | 10 | in pixel |  |  |  | 1 |  |
|  | PE_BORDER_SIIE_V | bv | bv | border V size | RadWr 10 |  | ${ }^{127}$ | 10 | in pixel |  |  |  | 1 |  |
|  | E_BORDER_SHADOW_POS |  |  | layer shadow position | RdWr ${ }^{0}$ |  | 3 | 0 |  |  |  |  | 1 |  |
|  | PE_OPENING_TRANSITIION | ot |  | layer opening tanstion | RdWr 0 |  | 2 |  |  |  |  |  | 1 |  |
|  | E_OPENING_TRANSTITIONAAY | ow |  | opening transition direction | RdW ${ }^{\text {a }} 0$ |  | ${ }^{3}$ | ${ }^{0}$ | $0=$ Left to tight Transition $1=$ Right toletf T Tarasititon $2=$ Bottom totop $3=$ Top to bottom |  |  |  | 1 |  |


| ${ }^{\text {crup }}$ | vomo | $\begin{array}{\|l\|} \hline \frac{8}{6} \\ \hline 8 \\ \hline 8 \end{array}$ | 1 | ${ }^{\text {command ooseripoen }}$ | Reed | 5 | 1 |  | value | matax ${ }^{\text {c }}$ | matax 12 | moxa 13 | $\frac{8}{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | PE_OPENIN__URATION | od 0 | ob | opening transition time | RdWr 0 |  | 255 | 10 | in $1 / 10$ second (ex: $105=10.55$ |  |  |  | 1 |  |
|  | E_Closing_transition | ${ }^{\text {ct }}$ | ct | layer closing trasition | RadWr 10 |  |  |  | $\begin{aligned} & 0=\text { Cut Transition } \\ & 1=\text { Fade Transition } \\ & 2=\text { Slide Transition } \end{aligned}$ |  |  |  | 1 |  |
|  | E_CLOSING_TRANSITION_WAY |  |  | closing transition direction | RdIWr 10 |  |  |  | $\begin{aligned} & 0=\text { Left to right Transition } \\ & 1=\text { Right toleft Trasition } \\ & 2=\text { Bottom toto Trasition } \\ & 3=\text { Top to bottom Transition } \end{aligned}$ |  |  |  | 1 |  |
|  | EE_CLOSING_dURATION | cD |  | closing transition time | RdWr ${ }^{\text {o }}$ |  | 255 | 10 | in 1/10 second (ex: $105=10.55$ ) |  | $0=$ Backround Frame $1=$ Layer $2=$ Ley $3=$ Leyor $4=$ Leyo $5=$ Log $6=0$ $7=$ Crome 7 |  | 1 |  |
|  | E_FREEZE_INPUT | pz |  | input image freze | RadWr 10 |  |  | 0 | 1 = input freze |  |  |  | 1 |  |
|  | P-PLUGNUM |  |  | ive pug on input |  |  |  |  |  |  |  |  |  |  |
|  | - -KEYING_ENABLE | KE |  | keyingotiting enable | RdWr 0 |  |  | 。 | 1 = enable keyingtting |  |  |  |  |  |
|  | -KEYING_LAYER | KL | KL | keying layer | Rdwr 1 |  |  | 2 | $\begin{aligned} & 1=\text { Layer A } \\ & 2=\text { Layer } \\ & 3=\text { Layer } \\ & 4=\text { Layer } \end{aligned}$ |  |  |  |  |  |
|  | -_KEVING_TYPE | кт |  | keying type | RdIWr 10 |  |  | 3 | $\begin{aligned} & 0=\text { Luma titling } \\ & 1=\text { Chroma titling } \\ & 2=\text { luma keying } \\ & 3=\text { chroma keying } \end{aligned}$ |  |  |  |  |  |
|  | - -KEYING_SHADOW | ks |  | shadow level under titiling layer | RdWr 10 |  | ${ }^{255}$ | 0 | $\begin{aligned} & 0=0 \%=\text { background attenuated, } \\ & 255=100 \%=\text { black background } \end{aligned}$ |  |  |  |  |  |
|  | -_KEYING_R_LEVEL | KR |  | keying red level | RdIWr 10 |  | 255 | 0 | $0=0 \%, 255=100 \%$ |  |  |  |  |  |
|  | -KEEYING_G_LEVEL | kG |  | keying green level or luma level | RdW ${ }^{\text {a }}$ O |  | 255 | 255 | 0=0\%,255 = 100\% | $0=$ Current Preset $1=$ Next Preset $2=$ Previous Preset $3=$ Memorized Preset 1 $4=$ Memorized Preset 2 $5=$ Memorized Preset 3 $6=$ Memorized Preset 4 |  |  |  |  |


| ${ }_{\text {group }}$ | veme |  | 敾 | Command osecripion | Reat | $\underline{5}$ | \% |  | vate | masext | mexata | maxex ${ }^{\text {a }}$ | $\frac{8}{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | -_KEYING_B_LEVEL | KB |  | keying blue level | RdWr 0 |  | 255 | 0 | $0=0 \%$, 255 = 10\% |  |  |  |  |  |
|  | -KEEYNG_TOLER | кH | kH | keying tolerance | RdWr 0 |  | ${ }^{255}$ | 16 | $0=0 \%$, 255 = 10\% |  |  |  |  |  |
|  | -KEEYING_INV | кi |  | key invert | RdWr 0 |  | 1 | 0 | 1 I invert key (inside keying) |  |  |  |  |  |
|  | -_KEYING_GRAB_ENABLE | kg | Kg | keying graber mode | RdWr 0 | 0 | 1 | 0 | 1 = grabber enable |  |  |  |  |  |
|  | - KEYYIN_GRAB_H | kh |  | keying grabber H position | RdWr 0 |  | 65535 | 32768 | in \% of output horizontal size |  |  |  |  |  |
|  | - -KEYING_GRAB_V | kv |  | keying graber V postion | RdWr 0 |  | ${ }^{65335}$ | 32768 | in \% of oftput vericical size |  |  |  |  |  |
|  | P-KEYING_GRAB_GET | кс |  | keying grabber enable | RdWr 0 |  |  | 0 | (auto clear) |  |  |  |  |  |
|  | PCLONE | PC |  | clone mode (copy Next preset paramelers to Current) | RdWr 0 |  |  | 0 | $0=$ never equalize Main and Preview for this vars group 1 = equalize only for front panel settings 2 = always equalize Main and Preview for this vars group |  |  |  |  |  |
|  | P-UPDATE | 10 | 10 | preset updated | RdWr 0 |  | 1 | 1 | ${ }^{0} 0$ beforo sending the preset |  |  |  |  |  |
|  | P-LINKED_INPUT | " |  | dualhead inputs (use lower number of the pair) (ex: 1=input1 or input2) | RdWr 0 |  | 4 | 0 |  |  |  |  |  |  |
|  | P-Force_duration | FD | fo | presef force duration (overwite layers durations) | RdWr 0 |  | 255 | 0 | $0=$ no forcing, else in $1 / 10$ second | $0=$ Current Preset $1=$ Next Preset $2=$ Previous Preset $3=$ Memorized Preset 1 $4=$ Memorized Preset 2 $5=$ Memorized Preset 3 $6=$ Memorized Preset 4 |  |  |  |  |
| ¢ | ${ }_{\text {TAKE }}^{\text {TAKE_TPPE }}$ | ${ }_{\text {TT }}^{\text {TK }}$ | ${ }_{\text {TK }}^{\text {TT }}$ | TAKE, Next preset become Current next TAKE type | ${ }_{\text {Rd }}^{\text {Radw }}$ | $0_{0}^{0}$ | $\frac{1}{4}$ | $0^{0}$ | (auto clear) <br> $0=$ standard TAKE <br> $1=$ sequenced TAKE, due to not enough front end <br> $2=$ sequenced TAKE, due to not enough scaler <br> $3=$ sequenced TAKE, due to cross not possible <br> $4=$ sequenced TAKE, due to keying cross not possible |  |  |  |  |  |
|  | TAKE W W Ror |  | ${ }_{\text {TR }}$ | TAKE when ready | RdMr 0 |  | 1 | 0 | (auto clear) |  |  |  |  |  |
|  |  | ${ }_{\text {TA }}{ }_{\text {TA }}$ | ${ }_{\text {TA }}$ | TAKE avaliable | ${ }_{\text {Rd }}^{\text {RdWr }}$ O ${ }^{\text {a }}$ | 0 | 1100 | $\bigcirc$ | O 0 busy, TAKE not possible |  |  |  |  |  |
|  | ${ }_{\text {IBAR }}^{\text {TBAR_POS_StATUS }}$ |  | ${ }_{\text {NK }}^{\text {NK }}$ | ${ }_{\text {trar value }}^{\text {thar position status }}$ | ${ }_{\text {Rd }}^{\text {RdMr }}{ }^{\text {a }}$ |  | 1000 |  | in in 11000 of \% |  |  |  |  |  |
|  | TBAR_OFFSET_LOW | ${ }^{\text {NL }}$ | ${ }^{\mathrm{NL}}$ | traar bottom offset | RadWr 0 | 0 | 1000 | 100 | in $11 / 100$ of \% |  |  |  |  |  |
|  | TBAR_OFFSET_HIGH | $\mathrm{NH}^{\text {a }}$ | NH | thar top offset | RdWr 0 | 0 | 1000 | 900 | in 11400 of \% |  |  |  |  |  |
|  | TBAR_Status | Ns | ns | tbar status | RdWr 0 |  |  | 0 | $0=$ Tbar not allowed $1=$ Tbar allowed $2=$ Tbar ready $3=$ Tbar active |  |  |  |  |  |
|  | TBAR_ABORT CLIGN_PRESET | - ${ }_{\text {ND }}$ | ${ }_{\text {ND }}^{\text {NP }}$ | cancel any tbar operation started (clear tbar position status) selected preset | ${ }_{\text {RdM }} \mathrm{RdO}$ |  | ${ }^{1}$ | 2 | (auto clear) <br> $0=$ Current Preset <br> $1=$ Next Preset <br> $2=$ Previous Preset |  |  |  |  |  |





DVXII v5.30

| ${ }_{\text {soup }}$ | Nome | 䂠 | 㻃 | ${ }^{\text {commandosacripion }}$ | Reat | $\stackrel{5}{\text { c }}$ | 是 | ${ }_{\text {Ofolut }}^{\text {Ofaute }}$ | Value | maxext | mexax ${ }^{\text {a }}$ | motax ${ }^{\text {a }}$ | $\stackrel{8}{2}$ | ${ }^{\text {Mosifications }}$ v．20 0.30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Softedge＿black＿G＿Level | sg |  | green component level in black rea | dWr |  | 63 | 0 | $0=$ Black | $0=$ Left／Top Border $1=$ Bottom／Right Border |  |  |  |  |
|  | SOFTEDEE＿BLACK＿B＿LEVEL | SB | sB b | mponent level in black | dw |  | ${ }^{63}$ | $\bigcirc$ | 0 B Black | $0=$ Left Top Border $1=$ Bottom／Right Border |  |  |  |  |
| ${ }^{\text {cogos }}$ | PMODE |  |  | Togotrame mode | Rawr |  |  |  | $0=$ Use Logo Frame mode 1 ＝Logo recording mode 2 ＝Live logo recording mode 3 ＝Frame recording mode 4 ＝Frame mask recording mode 5 ＝Logo clear mode $6=$ Frame clear mode 7 ＝Frame mask clear mode 8 ＝Complete frame，logo and maskFrame clear mode 9 ＝Transfer Mode |  |  |  |  |  |
|  | EXECUTE | PG | PG | logolfame control | RdIWr | 0 |  | $\bigcirc$ | ${ }^{\text {starar operation requested by logoframe mode．（recording or erasure）（auto }}$ |  |  |  |  |  |
|  | PABort | PA | PA | logoftrame recording abort | RdW ${ }^{\text {r }}$ |  | 1 | $\bigcirc$ | （auto clear） |  |  |  |  |  |
|  | Status | PE | PE ${ }^{10}$ | logoframe control status | Rd | 0 | 5 |  |  |  |  |  |  |  |
|  | PFRAMES＿VALID | PF | PF |  | Rd | 0 | 1023 | 0 | $0=$ no logoframe availible |  |  |  | 5 |  |
|  | PLogos＿VALID | PZ | ${ }^{\text {P2 }}$ | logo available status，bit field with bit0＝logo1 $\ldots$ bit7＝logo8 | Rd | 0 | 511 | 0 | $0=$ no logoframe available |  |  |  | 5 |  |
|  | CCAPTURELEFT | ${ }^{\text {PL }}$ | PL | logofframe horizontal position | RdWWr | 0 | 32767 | 0 | in pixel |  |  |  |  |  |
|  | PCAPTURE＿TOP | ${ }^{\text {PT }}$ |  | logotrame vericial position | ${ }_{\text {RdWr }}^{\text {RodWr }}$ |  | ${ }_{32767}^{3277}$ | ${ }_{400}^{0}$ | in pixel |  |  |  |  |  |
|  | CCAPTURE HEIGHT | ${ }^{\mathrm{PH}}$ | PH ${ }^{10}$ | logolframe capture vericial size | RdWr |  | 32767 | 300 | in pixel |  |  |  |  |  |
|  | PCAPTURE＿LUMAKEY＿TYPE | ${ }^{\text {PY }}$ | PY ${ }^{10}$ | logoframe keying mode | RdWr |  |  | 0 | $\cdots$ |  |  |  |  |  |
|  | PCAPTURE＿LUMAKEY＿LEVEL | $\mathrm{Pl}^{1}$ |  | logoftrame luma key level | RdIWr |  | 255 |  | $0=$ black， $255=$ white | $0=$ Main Output $1=$ Preview Output $2=$ Recording Output | ${ }_{\text {a }}^{\substack{0=\text { black } \\ 1=\text { White }}}$ |  |  |  |
|  | PCAPTURE＿BACK＿COLOR | Pc |  | matting color during logoframe lumakey | RdIWr |  |  |  | color number in 0 to 7 | $0=$ Main Output $1=$ Preview Output $2=$ Recording Output | $0=$ llack $1=$ White $\substack{\text { a }}$ a |  |  |  |
|  | PCAPTURE＿LUMAKEY＿INVERT | Pv |  | key invert | RodWr |  |  | 0 |  | $0=$ Main Output $1=$ Preview Output $2=$ Recording Output |  |  |  |  |
|  | PCAPTURE＿INDEX |  |  | logolframe number for recerring | RdW ${ }^{\text {r }}$ |  |  |  |  |  |  |  |  |  |
|  | SStatus＿midth | Pw |  | logolframe horizontal size status | Rd |  | 32767 |  |  |  |  |  |  |  |



| ${ }_{\text {group }}$ | Nomo | $\begin{array}{\|l\|} \hline \frac{0}{\mathrm{i}} \\ \stackrel{\rightharpoonup}{8} \\ \hline \end{array}$ | 悉 | Commandosecripion | Read | 5 | 是 | Oefout | value | matax ${ }^{\text {a }}$ | maxal | matax ${ }^{\text {a }}$ | $\frac{8}{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | GPIo_TRIG_EVENT | GE | GE | GPIO trigger event | RdWr |  | 207 |  |  |  |  |  |  |  |
|  | grio_status | ${ }^{\text {as }}$ |  | GPIO status | RdNW | 0 |  | 0 |  |  |  |  |  |  |
|  | TALLY_MODE | tm |  | TALLY input range mode | RdWr |  |  | 0 |  |  |  |  |  |  |
|  | TALIY_TRIG | $f^{t t}$ | ${ }^{\prime t}$ | machine input tally trigger | Rdwr |  | ${ }^{64}$ |  |  | $\begin{aligned} & 0=\text { Tally } 1 \text { output } \\ & 1=\text { Tally } 2 \text { output } \\ & 2=\text { Tally } 3 \text { output } \\ & 3=\text { Tally } 4 \text { output } \end{aligned}$ |  |  |  |  |
|  | Tally_status | ${ }^{\text {ts }}$ |  | ${ }^{\text {tally staus }}$ | Rd | 0 |  | 0 | ( $\begin{aligned} & 0=\text { OFF } \\ & 1=0 \text { O }\end{aligned}$ | $0=$ Tally 1 output $1=$ Taly 2 output $2=$ Tally $3=$ Tally 3 output output |  |  |  |  |
| $\begin{aligned} & \text { devices } \\ & \text { sync } \end{aligned}$ | Dev_SYNC_STATUS | ss |  | devsync satus | ${ }^{\text {Rd }}$ |  | 10 |  |  |  |  |  |  |  |
| lot | CopY_MEM_REQUEST |  |  | Imput seting copy, conirol |  |  |  |  | $\begin{aligned} & 0=\text { None } \\ & 1=\text { read request } \\ & 2=\text { write request } \end{aligned}$ |  |  |  |  |  |
|  |  |  |  | ininut seting copy, Slot number | ${ }_{\text {Rdwr }}^{\text {Rdowr }}$ |  | ${ }_{6}^{40}$ | 0 |  |  |  |  |  |  |
| Layouts | COPR MEM VALUE | ${ }^{\text {pL }}$ |  | input setitig copy, value | ${ }_{\text {RdM }}^{\text {Rolwr }}$ |  | ${ }^{16535}$ |  |  |  |  |  |  |  |


| ${ }^{\text {coup }}$ | $\cdots$ |  | ${ }^{\text {commama americon }}$ | neot | 5 | 1 | Somb | vato | maxas | measan | neasa |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Aaver_Lavout | $44$ | layer lyyut (auto ciear) | Rdwr 0 |  |  |  |  | O = Background Frame 1 = Layer A 2 = Layer B 3 = Layer C 4 = Layer D 5 = Logo A $6=$ Logo B 7 = Frame Mask |  |  |  |  |
|  | LAYOUT KEEP SIZE STDBYSTATUS <br> STDBYSTATUS | $\frac{L K}{\text { LK }}$ LK | liveravout kes size |  |  |  |  |  |  |  |  |  |  |
|  | STOBYREQUEST | wa wa | standby request | Radwr ${ }^{\circ}$ |  |  |  | $\begin{aligned} & 1=\text { Sleeping } \\ & 0=\text { Running } \\ & 1=\text { Sleeping } \end{aligned}$ |  |  |  |  |  |


| Note | Comment |
| :--- | :--- |
| $\mathbf{1}$ | In Matrix mode, use Layer A index value to access OUT1 commands and Layer C index value to access OUT2 commands. |
| $\mathbf{2}$ | Use values from 1 to 8 to access Frame and Logos. |
| $\mathbf{3}$ | only one input reference for every output. |
| $\mathbf{4}$ | In Mixer/Eseb mode, use Layer A to access Next Preset ( Prelist audio output ) or Current Preset ( Main audio output ) <br> In Matrix mode, Layer A corresponds to Audio Output 1 and Layer C to Audio Output 2 for each Preset |
| $\mathbf{5}$ | Values of the command are bit masked |

