

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group    | Name                   | Cmd | Resp | Description                                                   | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                         | Index #1 | Index #2 |
|----------|------------------------|-----|------|---------------------------------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------|
| SYSTEM   | DIESE                  | #   | #    | Request the retrieval of all the variables                    | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                |          |          |
|          | READY                  | *   | *    | Ready Device Flag                                             | Rd           | 0         | 1         | 0             | 0= Initialization in progress<br>1 = Ready                                                                                                                     |          |          |
|          | DEV                    | ?   | DEV  | MMS device type                                               | Rd           | 79        | 79        | 79            | 79 = PLS-200                                                                                                                                                   |          |          |
| CONTROLS | UPDATER                | yU  | yU   | Device reboot for update                                      | Rd/Wr        | 0         | 255       | 0             | 1 then 254 => Reboot                                                                                                                                           |          |          |
|          | FACTORYRESET           | YR  | YR   | Apply factory settings to the device( except image settings ) | Rd/Wr        | 0         | 1         | 0             | Auto reset                                                                                                                                                     |          |          |
|          | POSMEMORYRESET         | YE  | YE   | Erase stored image settings                                   | Rd/Wr        | 0         | 1         | 0             | Auto reset                                                                                                                                                     |          |          |
|          | CSTORE                 | YS  | YS   | FLASH memory writing in progress. Do not power off            | Rd           | 0         | 1         | 0             | 0 = Free<br>1 = Flash writing in progress                                                                                                                      |          |          |
|          | LOCK                   | YK  | YK   | Device locking                                                | Rd/Wr        | 0         | 2         | 0             | 0 = No lock<br>1 = Locked menu<br>2 = Locked front panel                                                                                                       |          |          |
|          | Lcdbrightness          | YB  | YB   | Front panel display brightness                                | Rd/Wr        | 1         | 8         | 8             | 1, ..., 8 = Brightness level, 12,5% step                                                                                                                       |          |          |
|          | KEYBRIGHTNESS          | Yb  | Yb   | Front panel keys brightness                                   | Rd/Wr        | 10        | 100       | 100           | 1, ..., 100 = Brightness level, 1% step                                                                                                                        |          |          |
|          | TBAR_ENABLE            | YD  | YD   | Enable disable T-BAR                                          | Rd/Wr        | 0         | 1         | 1             |                                                                                                                                                                |          |          |
|          | COPKIND                | CK  | CK   | Kind of slow in-progress operation                            | Rd           | 0         | 6         | 0             | 0 = None<br>1 = Auto centering<br>2 = Auto setting<br>3 = StandBy<br>4 = Picture recording<br>5 = Reset to default factory setting<br>6 = Reset User settings  |          |          |
|          | COPPROGRESS            | CP  | CP   | Progress percent of the slow operation                        | Rd           | 0         | 100       | 0             | Percent : 0 to 100%                                                                                                                                            |          |          |
|          | AXION                  | yA  | yA   | Device is driven by Orchestra                                 | Rd/Wr        | 0         | 1         | 0             | 0 = Device is not driven by ORC-50<br>1 = Device is driven by Orc-50                                                                                           |          |          |
|          | AUTO_LOCK              | YL  | YL   | Forbide the use of a signal-less input                        | Rd/Wr        | 0         | 1         | 1             | 0 = Signal less input can be selected<br>1 = Signal less input can not be selected                                                                             |          |          |
|          | AUTO_TAKE              | YT  | YT   | Automatic Take after an input change                          | Rd/Wr        | 0         | 1         | 0             | 0 = AUTO-TAKE Disable<br>1 = AUTO-TAKE Enable                                                                                                                  |          |          |
|          | AUTO_STEPBACK          | Ys  | Ys   | Automatic preset toggle after a TAKE                          | Rd/Wr        | 0         | 1         | 0             | 0 = AUTO- PRESET-TOGGLE Disable<br>1 = AUTO- PRESET-TOGGLE Enable                                                                                              |          |          |
|          | FREEZE_MODE            | Ym  | Ym   | Input freeze mode                                             | Rd/Wr        | 0         | 1         | 0             | 0 = Freeze by input<br>1 = Freeze all inputs                                                                                                                   |          |          |
|          | FRAME_ALERT            | Yf  | Yf   | Back-up input when an input loose its signal                  | Rd/Wr        | 0         | 12        | 0             | 0 = No input<br>1 = Input1<br>2 = Input2<br>3 = Input3<br>4 = Input4<br>5 = Input5<br>6 = Input6<br>9 = Input9<br>10 = Input10<br>11 = Input11<br>12 = Input12 |          |          |
|          | TRANSPARENT_BACKGROUND | Yt  | Yt   | Disable the the black fiilng of the bakgrounfd live layer     | Rd/Wr        | 0         | 1         | 1             | 0 = use BLACK_FILL<br>1 = Disable black filling only for background                                                                                            |          |          |
|          | BLACK_FILL             | bF  | bF   | Fill PIP with black depending on the aspect ratio             | Rd/Wr        | 0         | 1         | 0             | 0 = Disable black filling<br>1 = Enable black filling                                                                                                          |          |          |
|          | DISABLE_ID             | bl  | bl   | Disable Frame and Ids on the preview output                   | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                |          |          |

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|---------|----------------|-----|------|--------------------------------------------------------------------|--------------|-----------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| STANDBY | STDBYSTATUS    | wS  | wS   | Standby mode                                                       | Rd/Wr        | 0         | 1         | 0             | 0 = Normal mode<br>1 = Standby mode                                                                                                                                                                                                                        |                                                                                                                                                                   |          |
|         | STDBYREQUEST   | wQ  | wQ   | Request for standby or wake up                                     | Rd/Wr        | 0         | 1         | 0             | 0 = Wake up<br>1 = Standby                                                                                                                                                                                                                                 |                                                                                                                                                                   |          |
|         | STDBYPROJ_ON   | wN  | wN   | Message to wake-up an output display device ( 50 characters)       | Rd/Wr        | 0         | 255       | 0             |                                                                                                                                                                                                                                                            | min = 0 max = 49                                                                                                                                                  |          |
|         | STDBYPROJ_OFF  | wF  | wF   | Message to send an output display device to sleep ( 50 characters) | Rd/Wr        | 0         | 255       | 0             |                                                                                                                                                                                                                                                            | min = 0 max = 49                                                                                                                                                  |          |
|         | STDBYPROJ_RATE | wR  | wR   | Output display device UART speed                                   | Rd/Wr        | 0         | 3         | 2             | 0 = 1200bauds<br>1 = 2400bauds<br>2 = 9600bauds<br>3 = 19200bauds                                                                                                                                                                                          |                                                                                                                                                                   |          |
|         | STDBYPROJ_CTRL | wC  | wC   |                                                                    | Rd/Wr        | 0         | 4         | 0             | 0 = No request<br>1 = Wake up request<br>2 = Standby request<br>3 = Clear Wake up message<br>4 = Clear standby message                                                                                                                                     |                                                                                                                                                                   |          |
| VERSION | VERI1          | xi  | xi   | Byte 0 and 1 of the device ID                                      | Rd           | 0         | 65535     | 0             | ex : AAAA                                                                                                                                                                                                                                                  |                                                                                                                                                                   |          |
|         | VERI2          | xj  | xj   | Byte 2 and 3 of the device ID                                      | Rd           | 0         | 65535     | 0             | ex : AAAA                                                                                                                                                                                                                                                  |                                                                                                                                                                   |          |
|         | VERI3          | xk  | xk   | Byte 4 and 5 of the device ID                                      | Rd           | 0         | 65535     | 0             | ex : AAAA                                                                                                                                                                                                                                                  |                                                                                                                                                                   |          |
|         | VERI4          | xl  | xl   | Byte 6 and 7 of the device ID                                      | Rd           | 0         | 65535     | 0             | ex : AAAA                                                                                                                                                                                                                                                  |                                                                                                                                                                   |          |
|         | VERK           | xK  | xK   | Checksum/version of the programmable components                    | Rd/Wr        | 0         | 65535     | 0             |                                                                                                                                                                                                                                                            | 0 = Number of programmables components<br>1 = Main micro-controller<br>2 = Front panel micro-controler<br>3 = FPGA Caecina<br>4 = FPGA Fannia<br>6 = Synchro CPLD |          |
|         | VERV           | xV  | xV   | Variable set version                                               | Rd           | 0         | 65535     | 42            |                                                                                                                                                                                                                                                            |                                                                                                                                                                   |          |
|         | VERUPD         | xU  | xU   | Updater version                                                    | Rd           | 0         | 65535     | 0             |                                                                                                                                                                                                                                                            |                                                                                                                                                                   |          |
|         | OPT            | yo  | yo   | Detected options                                                   | Rd           | 0         | 65535     | 0             | bit 0 = Lan Module<br>bit 1 = SDI In 1 board (SDI 1 and 2)<br>bit 2 = Recording board<br>bit 3 = CF Caecina<br>bit 4 = CF Fannia<br>bit 5 = CF Thrasea<br>bit 6 = SDI In 2 board (SDI 3 and 4)<br>bit 7 = Audio Evolution<br>bit 8 = HDCP DVI In Evolution |                                                                                                                                                                   |          |
|         | REV            | xR  | xR   | Moher board revision                                               | Rd           | 0         | 255       | 0             |                                                                                                                                                                                                                                                            |                                                                                                                                                                   |          |
| INPUT   | IN_AUTOSET_ALL | la  | la   | Auto-setting request for all the inputs                            | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                                                                                                            |                                                                                                                                                                   |          |

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|-------|---------------|-----|------|-------------------------------------------------------|--------------|-----------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | IN_AUTOSET    | li  | li   | Auto-setting request for the specified input          | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_USR_FORMAT | iU  | iU   | Format/standard of the input signal corrected by user | Rd/Wr        | 0         | 42        | 0             | 0 = None<br>1 = Invalid<br>2 = Unknown<br>3 = SDTV NTSC<br>4 = SDTV PAL<br>5 = SDTV SECAM<br>6 = SDTV BW<br>7 = SDTV 480i<br>8 = SDTV 576i<br>9 = EDTV 480p<br>10 = EDTV 576p<br>11 = HDTV 720p<br>12 = HDTV 1035i<br>13 = HDTV 1080i<br>14 = HDTV 1080p<br>15 = HDTV 1080sF<br>16 = CPU VGA<br>17 = CPU 800x480<br>18 = CPU WVGA<br>19 = CPU SVGA<br>20 = CPU 1280x600<br>21 = CPU 720p RGB<br>22 = CPU XGA<br>23 = CPU WXGA<br>24 = CPU SWXGA<br>25 = CPU 800p RGB<br>26 = CPU SWXGA+<br>27 = CPU 1152x864<br>28 = CPU 900p RGB<br>29 = CPU 1600x900<br>30 = CPU 960p RGB<br>31 = CPU SXGA<br>32 = CPU 1360x1024<br>33 = CPU DILA4/3<br>34 = CPU SXGA+<br>35 = CPU WSXGA+<br>36 = CPU 1080p RGB<br>37 = CPU 2K<br>38 = CPU UXGA<br>39 = CPU WUXGA<br>40 = CPU 1920x1440<br>41 = CPU QXGA<br>42 = CPU 1366x768 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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|-------|--------------|-----|------|--------------------|--------------|-----------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | IN_TYPE      | ik  | ik   | Input signal type  | Rd/Wr        | 0         | 17        | 13            | 0 = SDTV Composite<br>1 = SDTV Y/C<br>2 = SDTV/EDTV/HDTV RGBS<br>TTL/Analog<br>3 = SDTV/EDTV/HDTV RGB SOG<br>4 = SDTV/EDTV/HDTV YUV<br>5 = Computer SOG<br>6 = Computer H&V or Composite (TTL/Analog)<br>7 = Computer B&W<br>8 = DVI-D EDTV/HDTV RGB 16-235<br>9 = DVI-D EDTV/HDTV YUV<br>10 = DVI-D Computer RGB 0-255<br>11 = DVI-D Computer RGB 16-235<br>12 = SDI SDTV/HDTV<br>13 = Analog Computer, separated H&V synchro<br>14 = Analog Computer, composite TTL synchro<br>15 = Analog Computer, composite analog synchro<br>16 = Analog RGB video, composite TTL synchro<br>17 = Analog RGB video, composite analog synchro | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_SYNC_LOAD | il  | il   | Analog H sync load | Rd/Wr        | 0         | 1         | 0             | 0 = Hi-Z<br>1 = 75 ohm loaded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_USED      | iu  | iu   | Input is enabled   | Rd/Wr        | 0         | 1         | 1             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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|--------|-------------------|-----|------|------------------------------------------------|--------------|-----------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|        | IN_SD_STD         | iS  | iS   | Decoded video standard                         | Rd/Wr        | 0         | 7         | 0             | 0 = Auto<br>1 = NTSC (M,J)<br>2 = PAL (BDGHIN)<br>3 = PAL (M)<br>4 = PAL (N-Combination)<br>5 = NTSC 4.43<br>6 = SECAM<br>7 = PAL 60                                  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|        | IN_SD_STA         | iV  | iV   | Video Signal stability                         | Rd/Wr        | 0         | 1         | 1             | 0 = Stable Source ( DVD )<br>1 = VCR Source ( Video cassette recorder )                                                                                               | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|        | IN_SYNCHRONIZED   | iY  | iY   | VIS Synchronisation group                      | Rd/Wr        | 0         | 3         | 0             | 0 = Does not belong to any VIS Group<br>1 = Groupe VIS 1 group for analog input<br>2 = Groupe VIS 2 group for analog input<br>3 = Groupe VIS 3 group for analog input | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|        | IN_HDCP_ENABLE    | iH  | iH   | Enable/disable the HDCP support of a DVI input | Rd/Wr        | 0         | 1         | 1             |                                                                                                                                                                       | 10 = Input11<br>11 = Input12                                                                                                                  |          |
|        | IN_HDCP_CABLE_LEN | iC  | iC   | Lenght of an DVI input cable                   | Rd/Wr        | 0         | 2         | 0             | 0 = Less than 10 meter cable length<br>1 = 5 to 20 meters cable length<br>2 = More than 15 meters cable length                                                        | 10 = Input11<br>11 = Input12                                                                                                                  |          |
| KEYING | IN_KEYING_TYPE    | KT  | KT   | Keying type                                    | Rd/Wr        | 0         | 4         | 0             | 0 = No keying<br>1 = Luma Key Keying<br>2 = ChromaKey Keying<br>3 = Luma Key Keying + DSK<br>4 = ChromaKey Keying + DSK                                               | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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|-------|--------------------------|-----|------|--------------------------------------------|--------------|-----------|-----------|---------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | IN_KEYING_R_LEVEL        | KR  | KR   | Keying level (Red )                        | Rd/Wr        | 0         | 255       | 0             |        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_KEYING_G_LEVEL        | KG  | KG   | Keying level (Green)                       | Rd/Wr        | 0         | 255       | 255           |        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_KEYING_B_LEVEL        | KB  | KB   | Keying level (Bule)                        | Rd/Wr        | 0         | 255       | 0             |        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_KEYING_TOLER          | KH  | KH   | Keying Tolerance (for chroma and luma key) | Rd/Wr        | 0         | 255       | 10            |        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | IN_KEYING_LUMA_LOW_LEVEL | KL  | KL   | Minimum luma level                         | Rd/Wr        | 0         | 255       | 0             |        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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|--------------|---------------------------|-----|------|-------------------------------------------------------------------|--------------|-----------|-----------|---------------|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|              | IN_KEYING_LUMA_HIGH_LEVEL | KM  | KM   | Maximum luma level                                                | Rd/Wr        | 0         | 255       | 255           |                                                   | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|              | IN_KEYING_DSK_ALPHA       | KA  | KA   | Brightness of DSK background                                      | Rd/Wr        | 0         | 255       | 64            |                                                   | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|              | IN_KEYING_INVERT          | KI  | KI   | Invert keying area                                                | Rd/Wr        | 0         | 1         | 0             |                                                   | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|              | IN_KEYING_GRAB_ENABLE     | Kg  | Kg   | Enable/disable the keying color grabber mode                      | Rd/Wr        | 0         | 1         | 0             | 0 = Disable the grabber<br>1 = Enable the grabber |                                                                                                                                               |          |
|              | IN_KEYING_GRAB_GET        | Kc  | Kc   | Capture the coolor selected by the grabber and apply the settings | Rd/Wr        | 0         | 1         | 0             | Percent of OSCREEN_UTIL_H                         |                                                                                                                                               |          |
|              | IN_KEYING_GRAB_H          | Kh  | Kh   | Horizontal position of the grabber                                | Rd/Wr        | 0         | 65535     | 32768         | Precent of OSCREEN_UTIL_V                         |                                                                                                                                               |          |
|              | IN_KEYING_GRAB_V          | Kv  | Kv   | Vertical position of the grabber                                  | Rd/Wr        | 0         | 65535     | 32768         | Auto reset                                        |                                                                                                                                               |          |
| INPUT STATUS | SIG_HPOL                  | sh  | sh   | Input H sync polarity                                             | Rd           | 0         | 1         | 0             | 0 = Negative Synchro<br>1 = Positive Synchro      | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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|       | SIG_VPOL       | sv  | sv   | Input V sync polarity | Rd           | 0         | 1         | 0             | 0 = Negative Synchro<br>1 = Positive Synchro                                                                          | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_SYNC_TYPE  | sk  | sk   | Input sync type       | Rd           | 0         | 3         | 0             | 0 = Séparated Synchros H&V<br>1 = Composite TTL Synchro<br>2 = Composite Analog Synchro<br>3 = Synchro on Green (SOG) | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_FREQ_FIELD | sf  | sf   | Input frame frequency | Rd           | 0         | 65535     | 0             | Unit = 1/100Hz                                                                                                        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_FREQ_LINE  | sl  | sl   | Input line frequency  | Rd           | 0         | 65535     | 0             | Unit = 1/100Hz                                                                                                        | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_COMPLETE   | sc  | sc   | Input scan completed  | Rd           | 0         | 1         | 0             | 0 = scan in progress or failed<br>1 = scan completed                                                                  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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| Group | Name                | Cmd | Resp | Description                | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Index #1                                                                                                                                      | Index #2 |
|-------|---------------------|-----|------|----------------------------|--------------|-----------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SIG_DETECTED_FORMAT | sD  | sD   | Input detected format name | Rd           | 0         | 42        | 0             | 0 = None<br>1 = Invalid<br>2 = Unknown<br>3 = SDTV NTSC<br>4 = SDTV PAL<br>5 = SDTV SECAM<br>6 = SDTV BW<br>7 = SDTV 480i<br>8 = SDTV 576i<br>9 = EDTV 480p<br>10 = EDTV 576p<br>11 = HDTV 720p<br>12 = HDTV 1035i<br>13 = HDTV 1080i<br>14 = HDTV 1080p<br>15 = HDTV 1080sF<br>16 = CPU VGA<br>17 = CPU 800x480<br>18 = CPU WVGA<br>19 = CPU SVGA<br>20 = CPU 1280x600<br>21 = CPU 720p RGB<br>22 = CPU XGA<br>23 = CPU WXGA<br>24 = CPU SWXGA<br>25 = CPU 800p RGB<br>26 = CPU SWXGA+<br>27 = CPU 1152x864<br>28 = CPU 900p RGB<br>29 = CPU 1600x900<br>30 = CPU 960p RGB<br>31 = CPU SXGA<br>32 = CPU 1360x1024<br>33 = CPU DILA4/3<br>34 = CPU SXGA+<br>35 = CPU WSXGA+<br>36 = CPU 1080p RGB<br>37 = CPU 2K<br>38 = CPU UXGA<br>39 = CPU WUXGA<br>40 = CPU 1920x1440<br>41 = CPU QXGA<br>42 = CPU 1366x768 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name               | Cmd | Resp | Description                                                 | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Index #1                                                                                                                                      | Index #2                                                                                                                                                    |
|-------|--------------------|-----|------|-------------------------------------------------------------|--------------|-----------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | SIG_CURRENT_FORMAT | sF  | sF   | Input current format name                                   | Rd           | 0         | 42        | 0             | 0 = None<br>1 = Invalid<br>2 = Unknown<br>3 = SDTV NTSC<br>4 = SDTV PAL<br>5 = SDTV SECAM<br>6 = SDTV BW<br>7 = SDTV 480i<br>8 = SDTV 576i<br>9 = EDTV 480p<br>10 = EDTV 576p<br>11 = HDTV 720p<br>12 = HDTV 1035i<br>13 = HDTV 1080i<br>14 = HDTV 1080p<br>15 = HDTV 1080sF<br>16 = CPU VGA<br>17 = CPU 800x480<br>18 = CPU WVGA<br>19 = CPU SVGA<br>20 = CPU 1280x600<br>21 = CPU 720p RGB<br>22 = CPU XGA<br>23 = CPU WXGA<br>24 = CPU SWXGA<br>25 = CPU 800p RGB<br>26 = CPU SWXGA+<br>27 = CPU 1152x864<br>28 = CPU 900p RGB<br>29 = CPU 1600x900<br>30 = CPU 960p RGB<br>31 = CPU SXGA<br>32 = CPU 1360x1024<br>33 = CPU DILA4/3<br>34 = CPU SXGA+<br>35 = CPU WSXGA+<br>36 = CPU 1080p RGB<br>37 = CPU 2K<br>38 = CPU UXGA<br>39 = CPU WUXGA<br>40 = CPU 1920x1440<br>41 = CPU QXGA<br>42 = CPU 1366x768 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |                                                                                                                                                             |
|       | SIG_FORMAT_LIST    | sL  | sL   | Bit field of the fomats compatible with the detected format | Rd           | 0         | 255       | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 | 0 = Bits 0 to 7 Slice<br>1 = Bits 8 to 15 Slice<br>2 = Bits 16 to 23 Slice<br>3 = Bits 24 to 31 Slice<br>4 = Bits 32 to 39 Slice<br>5 = Bits 40 to 47 Slice |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name               | Cmd | Resp | Description                             | Read / Write | Min Value | Max value | Default value | Values                                                                                                            | Index #1                                                                                                                                      | Index #2 |
|-------|--------------------|-----|------|-----------------------------------------|--------------|-----------|-----------|---------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SIG_SCANTYPE       | ss  | ss   | Input scan type                         | Rd           | 0         | 3         | 0             | 0 = Progressive<br>1 = Interleaved, Top field first<br>2 = Interleaved, Bottom field first<br>3 = Segmented frame | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_HTOTAL_THEORIC | sh  | sh   | Total number of pixels per line         | Rd           | 0         | 65535     | 0             | Unit = pixels                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_HTOTAL_MAXI    | sm  | sm   | Maximal number of pixels per input line | Rd           | 0         | 65535     | 0             | Unit = pixels                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_WIDTH          | sw  | sw   | Input displayed pixel count             | Rd           | 0         | 65535     | 0             | Unit = pixels                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SIG_HEIGHT         | st  | st   | Input displayed line count              | Rd           | 0         | 65535     | 0             | Unit = pixels                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group          | Name         | Cmd | Resp | Description               | Read / Write | Min Value | Max value | Default value | Values         | Index #1                                                                                                                                      | Index #2 |
|----------------|--------------|-----|------|---------------------------|--------------|-----------|-----------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|                | SIG_HDCP     | sn  | sn   | Input HDCP status         | Rd           | 0         | 1         | 0             |                | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|                | SIG_MEM_SLOT | sS  | sS   | Memory slot index         | Rd           | 0         | 255       | 255           |                | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
| INPUT SETTINGS | SET_HPOS     | SH  | SH   | Input horizontal position | Rd/Wr        | 0         | 2048      | 1024          | 1024 = neutral | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|                | SET_VPOS     | SV  | SV   | Input vertical position   | Rd/Wr        | 0         | 2048      | 1024          | 1024 = neutral | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|                | SET_HSIZE    | Sw  | Sw   | Input horizontal size     | Rd/Wr        | 0         | 4096      | 2048          | 2048 = neutral | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name           | Cmd | Resp | Description           | Read / Write | Min Value | Max value | Default value | Values         | Index #1                                                                                                                                      | Index #2 |
|-------|----------------|-----|------|-----------------------|--------------|-----------|-----------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SET_VSIZE      | Sh  | Sh   | Input vertical size   | Rd/Wr        | 0         | 4096      | 2048          | 2048 = neutral | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_BRIGHTNESS | Sg  | Sg   | Input brightness      | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_CONTRAST   | Sc  | Sc   | Input Contrast        | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_COLOR      | Sr  | Sr   | Input color level     | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_HUE        | Su  | Su   | Input hue (NTSC only) | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name            | Cmd | Resp | Description                                 | Read / Write | Min Value | Max value | Default value | Values         | Index #1                                                                                                                                      | Index #2 |
|-------|-----------------|-----|------|---------------------------------------------|--------------|-----------|-----------|---------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SET_HTOTAL      | ST  | ST   | Input total pixel per line                  | Rd/Wr        | 0         | 65535     | 0             | Unit = pixels. | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_PHASE       | SS  | SS   | Input Phase                                 | Rd/Wr        | 0         | 31        | 16            |                | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_AUTOCAD     | Sa  | Sa   | Input autocentering reques                  | Rd/Wr        | 0         | 1         | 0             | Auto reset     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_USER_GAIN_R | sr  | sr   | ADC R channel adjustment (advanced setting) | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_USER_GAIN_G | sg  | sg   | ADC G channel adjustment (advanced setting) | Rd/Wr        | 0         | 255       | 128           | 128 = neutral  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name               | Cmd | Resp | Description                                 | Read / Write | Min Value | Max value | Default value | Values                                                            | Index #1                                                                                                                                      | Index #2 |
|-------|--------------------|-----|------|---------------------------------------------|--------------|-----------|-----------|---------------|-------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SET_USER_GAIN_B    | sb  | sb   | ADC B channel adjustment (advanced setting) | Rd/Wr        | 0         | 255       | 128           | 128 = neutral                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_PULLDOWN_2_2   | Sn  | Sn   | Enable/disable the auto 2:2 pulldown        | Rd/Wr        | 0         | 1         | 1             | 0 = Disable automatic detection<br>1 = Enable automatic detection | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_PULLDOWN_3_2   | Sp  | Sp   | Enable/disable the auto 3:2 pulldown        | Rd/Wr        | 0         | 1         | 1             | 0 = Disable automatic detection<br>1 = Enable automatic detection | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_CROP_WIN_POS_H | SI  | SI   | Cropping window horizontal position         | Rd/Wr        | 0         | 65535     | 32768         | Percent = 65535 = 100% : all cropping on the left                 | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_CROP_WIN_POS_V | SJ  | SJ   | Cropping window vertical position           | Rd/Wr        | 0         | 65535     | 32768         | Percent = 65535 = 100% : all cropping on the top                  | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name                 | Cmd | Resp | Description                    | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                       | Index #1                                                                                                                                      | Index #2 |
|-------|----------------------|-----|------|--------------------------------|--------------|-----------|-----------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | SET_CROP_WIN_SIZE_H  | SK  | SK   | Horizontal cropping            | Rd/Wr        | 0         | 58981     | 0             | Percent = 65535 = 100%                                                                                                                                                                                       | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_CROP_WIN_SIZE_V  | SL  | SL   | Vertical cropping              | Rd/Wr        | 0         | 58981     | 0             | Percent = 65535 = 100%                                                                                                                                                                                       | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_ASPECT_RATIO_IN  | si  | si   | Input image aspect ratio       | Rd/Wr        | 0         | 4         | 0             | 0 = 4/3 Fullscreen<br>1 = 4/3 with 16/9 content + black stripes<br>2 = 4/3 with 2.35 content + black stripes<br>3 = 4/3 with 16/9 content without black stripes<br>4 = 19/9 with 4/3 content + black stripes | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_ASPECT_RATIO_OUT | so  | so   | Output image aspect ratio      | Rd/Wr        | 0         | 3         | 1             | 0 = Distorted, input aspect ratio not preserved<br>1 = Not distorted, black bands added<br>2 = Not distorted, no black bands added<br>3 = Not distorted and no scaling                                       | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | SET_OVER_SCAN        | so  | so   | input image Overscan/Underscan | Rd/Wr        | 0         | 1         | 1             |                                                                                                                                                                                                              | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group          | Name               | Cmd | Resp | Description                                     | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                         | Index #1                                                                                                                                                                                                          | Index #2                                                                                                                                                     |
|----------------|--------------------|-----|------|-------------------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | SET_FORCE_4_3      | SF  | SF   | Force the aspect ratio of PAL/NTSC input to 4/3 | Rd/Wr        | 0         | 1         | 1             | 1 = forced                                                                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12                                                                     |                                                                                                                                                              |
|                | SET_RESET_SETTINGS | Ss  | Ss   | Current input default settings                  | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12                                                                     |                                                                                                                                                              |
|                | SET_FREEZE         | Sf  | Sf   | Freeze of the input                             | Rd/Wr        | 0         | 1         | 0             | 1 = Freeze                                                                                                                                                     | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12                                                                     |                                                                                                                                                              |
|                | SET_MOTION_DETECT  | Sm  | Sm   | 0 : max correction; 15 : min correction         | Rd/Wr        | 0         | 15        | 15            |                                                                                                                                                                | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12                                                                     |                                                                                                                                                              |
| PRESET ELEMENT | PE_INPUTNUM        | IN  | IN   | Displayed input number or frame or logo number  | Rd/Wr        | 0         | 12        | 0             | 0 = No input<br>1 = Input1<br>2 = Input2<br>3 = Input3<br>4 = Input4<br>5 = Input5<br>6 = Input6<br>9 = Input9<br>10 = Input10<br>11 = Input11<br>12 = Input12 | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset<br>7 = Memory Preset<br>8 = Audio Output 1<br>9 = Audio Output 2 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name              | Cmd | Resp | Description                    | Read / Write | Min Value | Max value | Default value | Values      | Index #1                                                                                                                                                             | Index #2                                                                                                                                                     |
|-------|-------------------|-----|------|--------------------------------|--------------|-----------|-----------|---------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | PE_SOURCENUM      | IS  | IS   | Source number                  | Rd/Wr        | 0         | 64        | 0             | Same Orc-50 | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_AUDIO_AUX_MUTE | Aa  | Aa   | Auxiliary input mixing enable  | Rd/Wr        | 0         | 1         | 0             | 1 = Enable. | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_SMOOTH_MOVE    | ps  | ps   | « Smooth Move » activation     | Rd/Wr        | 0         | 1         | 1             | 1 = Enable. | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_NEW_ID         | pN  | pN   | Unique layer identifier number | Rd/Wr        | 0         | 1         | 0             |             | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name      | Cmd | Resp | Description                                     | Read / Write | Min Value | Max value | Default value | Values                                       | Index #1                                                                                                                                         | Index #2                                                                                                                                                     |
|-------|-----------|-----|------|-------------------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | PE_POS_H  | pH  | pH   | Layer left H position on output screen          | Rd/Wr        | 0         | 65535     | 32768         | Unit = pixels ( 32768 = screen left border ) | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_POS_V  | pV  | pV   | Layer top V position on output screen           | Rd/Wr        | 0         | 65535     | 32768         | Unit = pixels ( 32768 = screen top border )  | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_SIZE_H | pW  | pW   | Layer H size on output screen (without borders) | Rd/Wr        | 0         | 65535     | 1600          | Unit = pixels ( Max=16x2048 = 32768)         | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_SIZE_V | pS  | pS   | Layer V size on output screen (without borders) | Rd/Wr        | 0         | 65535     | 1200          | Unit = pixels (Max=16x2048 = 32768)          | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name               | Cmd | Resp | Description                         | Read / Write | Min Value | Max value | Default value | Values                                                       | Index #1                                                                                                                                                             | Index #2                                                                                                                                                     |
|-------|--------------------|-----|------|-------------------------------------|--------------|-----------|-----------|---------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | PE_CROP_WIN_POS_H  | CH  | CH   | Cropping window horizontal position | Rd/Wr        | 0         | 65535     | 32768         | Unit = percent ( 65535 = 100% = : all cropping on the left ) | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_CROP_WIN_POS_V  | CV  | CV   | Cropping window vertical position   | Rd/Wr        | 0         | 65535     | 32768         | Unit = percent ( 65535 = 100% = : all cropping on the top )  | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_CROP_WIN_SIZE_H | CW  | CW   | Horizontal cropping                 | Rd/Wr        | 0         | 58981     | 0             | Percent = 65535 = 100%                                       | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_CROP_WIN_SIZE_V | CS  | CS   | Vertical cropping                   | Rd/Wr        | 0         | 58981     | 0             | Percent = 65535 = 100%                                       | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name            | Cmd | Resp | Description         | Read / Write | Min Value | Max value | Default value | Values                                       | Index #1                                                                                                                                                             | Index #2                                                                                                                                                     |
|-------|-----------------|-----|------|---------------------|--------------|-----------|-----------|---------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | PE_ALPHA        | pA  | pA   | Layer transparency  | Rd/Wr        | 0         | 255       | 255           | 0 = 100% = transparent<br>255 = 0% = visible | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_BORDER_STYLE | bS  | bS   | Border style        | Rd/Wr        | 0         | 1         | 0             | 0 = No border<br>1 = Colored edge            | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_BORDER_COLOR | bC  | bC   | Border color        | Rd/Wr        | 0         | 544       | 33            | Color number                                 | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_BORDER_ALPHA | bA  | bA   | Border transparency | Rd/Wr        | 0         | 255       | 255           | 0 = 100% = transparent<br>255 = 0% = visible | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name                      | Cmd | Resp | Description                        | Read / Write | Min Value | Max value | Default value | Values                              | Index #1                                                                                                                                                             | Index #2                                                                                                                                                     |
|-------|---------------------------|-----|------|------------------------------------|--------------|-----------|-----------|---------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | PE_BORDER_SIZE_H          | bH  | bH   | Border H size                      | Rd/Wr        | 0         | 127       | 10            | Unit = pixels                       | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_BORDER_SIZE_V          | bV  | bV   | Border V size                      | Rd/Wr        | 0         | 127       | 10            | Unit = pixels                       | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_OPENING_TRANSITION     | oT  | oT   | Layer opening transition type      | Rd/Wr        | 0         | 2         | 2             | 0 = Cut<br>1 = CleanCut<br>2 = Fade | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|       | PE_OPENING_TRANSITION_WAY | oW  | oW   | Layer opening transition direction | Rd/Wr        | 0         | 10        | 0             |                                     | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>1<br>4 = Memory Preset<br>2<br>5 = Memory Preset<br>3<br>6 = Memory Preset<br>4 | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group          | Name                      | Cmd | Resp | Description                        | Read / Write | Min Value | Max value | Default value | Values                                                   | Index #1                                                                                                                                         | Index #2                                                                                                                                                     |
|----------------|---------------------------|-----|------|------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                | PE_OPENING_DURATION       | oD  | oD   | Layer opening transition duration  | Rd/Wr        | 0         | 255       | 10            | Unit = 1/10s                                             | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|                | PE_CLOSING_TRANSITION     | cT  | cT   | Layer closing transition type      | Rd/Wr        | 0         | 2         | 2             | 0 = Cut<br>1 = CleanCut<br>2 = Fade                      | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|                | PE_CLOSING_TRANSITION_WAY | cW  | cW   | Layer closing transition direction | Rd/Wr        | 0         | 10        | 0             |                                                          | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
|                | PE_CLOSING_DURATION       | cD  | cD   | Layer closing transition duration  | Rd/Wr        | 0         | 255       | 10            | Unit = 1/10s                                             | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset<br>4 = Memory Preset<br>5 = Memory Preset<br>6 = Memory Preset | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2 |
| PRESET CONTROL | TAKE                      | TK  | TK   | TAKE, Next preset becomes Current  | Rd/Wr        | 0         | 1         | 0             |                                                          |                                                                                                                                                  |                                                                                                                                                              |
|                | TAKEAVA                   | TA  | TA   | Available TAKE flag                | Rd           | 0         | 1         | 1             |                                                          |                                                                                                                                                  |                                                                                                                                                              |
|                | TAKEINFO                  | TI  | TI   | TAKE information                   | Rd           | 0         | 2         | 0             | 0 = 1 shot TAKE<br>1 = 2 shot TAKE<br>2 = Sequenced TAKE |                                                                                                                                                  |                                                                                                                                                              |
|                | TBAR                      | NT  | NT   | TBAR value                         | Rd/Wr        | 0         | 10000     | 0             | Unit = 0,01%                                             |                                                                                                                                                  |                                                                                                                                                              |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group    | Name            | Cmd | Resp | Description                                               | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                    | Index #1                              | Index #2 |
|----------|-----------------|-----|------|-----------------------------------------------------------|--------------|-----------|-----------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|
|          | COPY_FROM       | Nf  | Nf   | Source for preset copy                                    | Rd/Wr        | 0         | 6         | 0             | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset 1<br>4 = Memory Preset 2<br>5 = Memory Preset 3<br>6 = Memory Preset 4                                                                                                  |                                       |          |
|          | COPY_TO         | Nt  | Nt   | Destination for preset copy                               | Rd/Wr        | 0         | 6         | 0             | 0 = Current preset<br>1 = Next preset<br>2 = Previous preset<br>3 = Memory Preset 1<br>4 = Memory Preset 2<br>5 = Memory Preset 3<br>6 = Memory Preset 4                                                                                                  |                                       |          |
|          | COPY_CTRL       | Nc  | Nc   | Preset copy control                                       | Rd/Wr        | 0         | 1         | 0             | Auto reset                                                                                                                                                                                                                                                |                                       |          |
|          | PREVIEWED_LAYER | NC  | NC   | Previewed layer (layer that is visible on preview screen) | Rd/Wr        | 2         | 7         | 2             | 2 = Background Layer for output 1<br>3 = Pip 1 Layer for output1<br>Background Layer for output 2 in matrix mode<br>8 = Audio Output 1<br>9 = Audio Output 2                                                                                              |                                       |          |
|          | SET_QUAD_LAYOUT | NQ  | NQ   | Quadravision Layout request (auto-reset)                  | Rd/Wr        | 9         | 17        | 0             | 9 = 2 Horizontal Windows<br>10 = 2 Vertical Windows<br>13 = Reset of layer properties<br>14 = Background Live + Top Left PiP<br>15 = Background Live + Top Right PiP<br>16 = Background Live + Bottom Left PiP<br>17 = Background Live + Bottom Right PiP |                                       |          |
| SETTINGS | R_FLICK         | Rf  | Rf   | Anti-flicker level                                        | Rd/Wr        | 0         | 7         | 2             | 0 = No anti-flicker                                                                                                                                                                                                                                       | 0 = Main output<br>1 = Preview output |          |
|          | R_GAMMA         | Rg  | Rg   | Gamma correction level                                    | Rd/Wr        | 5         | 40        | 10            | Unit = 1/10                                                                                                                                                                                                                                               | 0 = Main output<br>1 = Preview output |          |
|          | R_SHARPNESS     | Rs  | Rs   | Sharpness correction Level                                | Rd/Wr        | 0         | 255       | 128           | 128 = neutral                                                                                                                                                                                                                                             | 0 = Main output<br>1 = Preview output |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group  | Name    | Cmd | Resp | Description   | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Index #1                              | Index #2 |
|--------|---------|-----|------|---------------|--------------|-----------|-----------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|
| OUTPUT | OFORMAT | OF  | OF   | Output format | Rd/Wr        | 0         | 37        | 0             | 0 = PAL<br>1 = NTSC<br>2 = 480p<br>3 = 576p<br>4 = SMPTE296M<br>5 = SMPTE260M<br>6 = SMPTE274M<br>7 = SMPTE274M<br>8 = SMPTE274M<br>9 = 640 x 480 4/3<br>10 = 848 x 480 16/9<br>11 = 800 x 600 4/3<br>12 = 1024 x 768 4/3<br>13 = 1360 x 768 16/9<br>14 = 1280 x 800 16/9<br>15 = 1280 x 1024 5/4<br>16 = 1400 x 1050 5/3<br>17 = 1680 x 1050 16/9<br>18 = 1600 x 1200 4/3<br>19 = 1920 x 1200 16/9<br>20 = 2048 x 1080<br>21 = 1280 x 720 16/9<br>22 = 1920 x 1080 16/9<br>23 = 1920 x 1080 16/9 (HD)<br>24 = 1920 x 1080 16/9 (SHARP)<br>25 = 1920 x 1080 16/9 (SHARP 2)<br>26 = 1440 x 900 16/10<br>27 = 1280 x 768 15/9<br>28 = 1366 x 800 15/9<br>29 = 1366 x 768 16/9<br>30 = Computer Custom 1<br>31 = Computer Custom 2<br>32 = Computer Custom 3<br>33 = Computer Custom 4<br>34 = Computer Custom 5<br>35 = Computer Custom 6<br>36 = Computer Custom 7<br>37 = Computer Custom 8 | 0 = Main output<br>1 = Preview output |          |
|        | ORATE   | OR  | OR   | Output rate   | Rd/Wr        | 0         | 12        | 8             | 0 = Custom Field Rate<br>1 = 23,97 Hz<br>2 = 24 Hz<br>3 = 25 Hz<br>4 = 29,97 Hz<br>5 = 30 Hz<br>6 = 50 Hz<br>7 = 59,94 Hz<br>8 = 60 Hz<br>9 = 72 Hz<br>10 = 75 Hz<br>11 = 85 Hz<br>12 = 100 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 = Main output<br>1 = Preview output |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name             | Cmd | Resp | Description                         | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Index #1                              | Index #2 |
|-------|------------------|-----|------|-------------------------------------|--------------|-----------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|
|       | OSIGTYPEANALOG   | OA  | OA   | Analog output type                  | Rd/Wr        | 0         | 3         | 0             | 0 = RGBs<br>1 = RGsB (SOG)<br>2 = RGB H&V<br>3 = YUV                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0 = Main output<br>1 = Preview output |          |
|       | OSIGTYPEDIGITAL  | OD  | OD   | Digital output type                 | Rd/Wr        | 0         | 2         | 0             | 0 = RGB 0-255 ( full scale )<br>1 = RGB 16-235 ( reduced scale )<br>2 = YUV                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0 = Main output<br>1 = Preview output |          |
|       | OSYNCPOL         | OS  | OS   | Analog output sync polarity         | Rd/Wr        | 0         | 3         | 0             | 0 = negative H&V synchro<br>1 = Synchros H négative et V positive<br>2 = Synchros H positive et V négative<br>3 = Synchros H et V positives                                                                                                                                                                                                                                                                                                                                                                                              | 0 = Main output<br>1 = Preview output |          |
|       | OBACKCOLORPREDEF | OC  | OC   | Output background pre-defined color | Rd/Wr        | 0         | 32        | 0             | 0 = Black<br>1 = Navy blue<br>2 = Blue<br>3 = Green Blue<br>4 = Water Blue<br>5 = Turquoise blue<br>6 = Dark green<br>7 = Green<br>8 = Lime<br>9 = Light green<br>10 = Dark red<br>11 = Red<br>12 = Tomato red<br>13 = Bordeaux<br>14 = Brown<br>15 = Chocolate<br>16 = Orange<br>17 = Gold<br>18 = Yellow<br>19 = Indigo blue<br>20 = Purple<br>21 = Light red<br>22 = Fuchsia<br>23 = Salmon<br>24 = Rose<br>25 = Olive reen<br>26 = Grey<br>27 = Silver<br>28 = Lavender blue<br>29 = Beige<br>30 = Azur<br>31 = White<br>32 = Custom | 0 = Main output<br>1 = Preview output |          |
|       | OBACKCOLORHUE    | OG  | OG   | Output background hue               | Rd/Wr        | 0         | 240       | 160           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 = Main output<br>1 = Preview output |          |
|       | OBACKCOLORSAT    | OJ  | OJ   | Output background saturation        | Rd/Wr        | 0         | 240       | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 = Main output<br>1 = Preview output |          |
|       | OBACKCOLORLUMA   | OI  | OI   | Output background brightness        | Rd/Wr        | 0         | 240       | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 = Main output<br>1 = Preview output |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group     | Name              | Cmd | Resp | Description                                     | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                           | Index #1                              | Index #2 |
|-----------|-------------------|-----|------|-------------------------------------------------|--------------|-----------|-----------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|----------|
|           | OPATTERN          | OP  | OP   | Output test pattern                             | Rd/Wr        | 0         | 8         | 0             | 0 = No pattern<br>1 = Vertical Grey Scale<br>2 = Horizontal Grey Scale<br>3 = Vertical Color Bar<br>4 = Horizontal Color Bar<br>5 = Grid<br>6 = SMPTE<br>7 = Burst<br>8 = Centering                                                                                                                                                                                                                              | 0 = Main output<br>1 = Preview output |          |
|           | OBLACK            | OB  | OB   | Output black control                            | Rd/Wr        | 0         | 1         | 0             | 0 = Normal output<br>1 = Black output                                                                                                                                                                                                                                                                                                                                                                            | 0 = Main output<br>1 = Preview output |          |
|           | OUTIL_H           | OH  | OH   | Output H size                                   | Rd           | 0         | 65535     | 1600          | Unit = pixels                                                                                                                                                                                                                                                                                                                                                                                                    | 0 = Main output<br>1 = Preview output |          |
|           | OUTIL_V           | OV  | OV   | Output V size                                   | Rd           | 0         | 65535     | 1200          | Unit = pixels                                                                                                                                                                                                                                                                                                                                                                                                    | 0 = Main output<br>1 = Preview output |          |
|           | OFIELDRATE        | OT  | OT   | Output frame frequency                          | Rd           | 100       | 10000     | 6000          | Unit = 1/100Hz                                                                                                                                                                                                                                                                                                                                                                                                   | 0 = Main output<br>1 = Preview output |          |
|           | OIMAGE_OVERSCAN   | OO  | OO   | Image Overscan / Underscan                      | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 = Main output<br>1 = Preview output |          |
|           | OSETDETECTHDCP    | Oh  | Oh   | Enable/disable the Output HDCP detection        | Rd/Wr        | 0         | 4         | 1             | 0 = Disable HDCP detection<br>1 = Automatic HDCP detection<br>2 = HDCP Configuration 1<br>3 = HDCP Configuration 2<br>4 = HDCP Configuration 3                                                                                                                                                                                                                                                                   | 0 = Main output<br>1 = Preview output |          |
|           | OISHDCP           | On  | On   | Output HDCP status                              | Rd           | 0         | 1         | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 = Main output<br>1 = Preview output |          |
|           | OSYNCOUPUT        | Om  | Om   | Output 2 copies the format and rate of output 1 | Rd/Wr        | 0         | 1         | 0             |                                                                                                                                                                                                                                                                                                                                                                                                                  |                                       |          |
| REFERENCE | REFREQUEST        | Xr  | Xr   | Framelock source requested by user              | Rd/Wr        | 0         | 15        | 0             | 0 = Analog input 1 as reference<br>1 = Analog input 2 as reference<br>2 = Analog input 3 as reference<br>3 = Analog input 4 as reference<br>4 = Analog input 5 as reference<br>5 = Analog input 6 as reference<br>8 = DVI 1 input as reference<br>9 = DVI 2 input as reference<br>10 = SDI 1 input as reference<br>11 = SDI 2 input as reference<br>14 = Back End 1 as reference<br>15 = Back End 2 as reference | 0 = Main output<br>1 = Preview output |          |
|           | REFCURRENTREQUEST | Xe  | Xe   | Current Frame Lock source                       | Rd/Wr        | 0         | 15        | 0             | 0 = Analog input 1 as reference<br>1 = Analog input 2 as reference<br>2 = Analog input 3 as reference<br>3 = Analog input 4 as reference<br>4 = Analog input 5 as reference<br>5 = Analog input 6 as reference<br>8 = DVI 1 input as reference<br>9 = DVI 2 input as reference<br>10 = SDI 1 input as reference<br>11 = SDI 2 input as reference<br>14 = Back End 1 as reference<br>15 = Back End 2 as reference | 0 = Main output<br>1 = Preview output |          |

# COMMAND LIST FOR PLS-200 version 4.00 VERV 42

| Group | Name           | Cmd | Resp | Description                        | Read / Write | Min Value | Max value | Default value | Values                                                                                                        | Index #1                                | Index #2                                                                                                                |
|-------|----------------|-----|------|------------------------------------|--------------|-----------|-----------|---------------|---------------------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
|       | REFMODE        | Xm  | Xm   | Follow mode requested by user      | Rd/Wr        | 0         | 5         | 0             | 0 = Internal<br>1 = Follow x1/2<br>2 = Follow x1<br>3 = Follow x2<br>4 = Follow x3<br>5 = Asynchronous Follow | 0 = Main output<br>1 = Preview output   |                                                                                                                         |
|       | REFCURRENTMODE | Xc  | Xc   | Current follow mode                | Rd/Wr        | 0         | 5         | 0             | 0 = Internal<br>1 = Follow x1/2<br>2 = Follow x1<br>3 = Follow x2<br>4 = Follow x3<br>5 = Asynchronous Follow | 0 = Main output<br>1 = Preview output   |                                                                                                                         |
|       | REFREQ         | Xt  | Xt   | Frame rate of the reference signal | Rd           | 0         | 65535     | 0             | Unit = 1/100Hz                                                                                                | 0 = Main output<br>1 = Preview output   |                                                                                                                         |
|       | REFLOCKSTATUS  | Xl  | Xl   | Framelock locked status            | Rd           | 0         | 1         | 0             | 1 = locked                                                                                                    | 0 = Main output<br>1 = Preview output   |                                                                                                                         |
| LAN   | LANENABLE      | ne  | ne   | LAN enable                         | Rd/Wr        | 0         | 1         | 0             | 0 = Enable RS232 ( disable LAN )<br>1 = Enable LAN ( disable RS232 )                                          |                                         |                                                                                                                         |
|       | LANRESET       | nr  | nr   | LAN factory parameters reset       | Rd/Wr        | 0         | 1         | 0             | Auto reset                                                                                                    |                                         |                                                                                                                         |
|       | LANSTORE       | ns  | ns   | LAN parameters update              | Rd/Wr        | 0         | 1         | 0             | Auto reset                                                                                                    |                                         |                                                                                                                         |
|       | LANIP          | nw  | nw   | LAN devices addresses              | Rd/Wr        | 0         | 255       | 192           | IP : 0 to 255                                                                                                 | 0 = Device<br>1 = Remote<br>2 = Gateway | 0 = IP address high byte<br>1 = IP address mid high byte<br>2 = IP address mid low high byte<br>3 = IP address low byte |
|       | LANPORT        | np  | np   | LAN port numbers                   | Rd/Wr        | 0         | 65535     | 10500         | Local port : 10000 à 10999<br>Remote port : 0 à 65500                                                         | 0 = Device<br>1 = Remote<br>2 = Gateway |                                                                                                                         |
|       | LANNETMASK     | nk  | nk   | LAN netmask                        | Rd/Wr        | 0         | 24        | 8             | Number of 0bits from the right                                                                                |                                         |                                                                                                                         |
|       | LANPROTOCOL    | nt  | nt   | LAN protocol                       | Rd/Wr        | 0         | 1         | 1             | 0 = UDP Protocol<br>1 = TCP protocol<br>2 = AMX Protocol                                                      |                                         |                                                                                                                         |

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| Group | Name             | Cmd | Resp | Description                    | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                              | Index #1                                                                                                                                      | Index #2 |
|-------|------------------|-----|------|--------------------------------|--------------|-----------|-----------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
| EDID  | EDID_FORMAT      | EF  | EF   | EDID preferred format          | Rd/Wr        | 0         | 21        | 0             | 0 = VGA<br>1 = 800x480<br>2 = WVGA<br>3 = SVGA<br>4 = 720pRGB<br>5 = XGA<br>6 = WXGA<br>7 = SWXGA<br>8 = 800pRGB<br>9 = 1152x864<br>10 = 900pRGB<br>11 = 1600x900<br>12 = 960pRGB<br>13 = SXGA<br>14 = 1360x1024<br>15 = SXGA+<br>16 = WSXGA+<br>17 = 1080pRGB<br>18 = 2K<br>19 = UXGA<br>20 = WUXGA<br>21 = Custom | 0 = Analog input 1<br>1 = Analog input 2<br>3 = DVI-D input 1<br>4 = DVI-D input 2                                                            |          |
|       | EDID_RATE        | ER  | ER   | EDID preferred frame frequency | Rd/Wr        | 0         | 5         | 0             | 0 = 50 Hz<br>1 = 60 Hz<br>2 = 72 Hz<br>3 = 75 Hz<br>4 = 85 Hz<br>5 = Custom                                                                                                                                                                                                                                         | 0 = Analog input 1<br>1 = Analog input 2<br>3 = DVI-D input 1<br>4 = DVI-D input 2                                                            |          |
|       | EDID_REQUEST     | ES  | ES   | Request for an EDID            | Rd/Wr        | 0         | 2         | 0             | 0 = EDID is ready<br>1 = EDID saving<br>2 = EDID reading                                                                                                                                                                                                                                                            | 0 = Analog input 1<br>1 = Analog input 2<br>3 = DVI-D input 1<br>4 = DVI-D input 2                                                            |          |
| AUDIO | AUDIO_INPUT_MODE | Af  | Af   | Audio mode                     | Rd/Wr        | 0         | 1         | 1             | 0 = Free choice of audio input<br>1 = Audio input follow the top layers                                                                                                                                                                                                                                             |                                                                                                                                               |          |
|       | AUDIO_INPUT_MAP  | Ai  | Ai   | Audio input map                | Rd/Wr        | 0         | 12        | 1             | 0 = No input<br>1 = Input1<br>2 = Input2<br>3 = Input3<br>4 = Input4<br>5 = Input5<br>6 = Input6<br>9 = Input9<br>10 = Input10<br>11 = Input11<br>12 = Input12                                                                                                                                                      | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |

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| Group | Name                | Cmd | Resp | Description                                        | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                             | Index #1                                                                                                                                      | Index #2 |
|-------|---------------------|-----|------|----------------------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------|
|       | AUDIO_LEVEL         | AL  | AL   | Audio input level                                  | Rd/Wr        | 0         | 255       | 45            | Linear scale, init value is 0 dB                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | AUDIO_AUX_LEVEL     | AI  | AI   | Audio auxiliary input level                        | Rd/Wr        | 0         | 255       | 45            | Linear scale, init value is 0 dB                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                               |          |
|       | AUDIO_BALANCE       | Ab  | Ab   | Audio input balance                                | Rd/Wr        | 0         | 90        | 45            | 0 = max to the left, 45 = centered, 90 = max to the right                                                                                                                                                                                                                                                                                                                                                                                          | 0 = Input1<br>1 = Input2<br>2 = Input3<br>3 = Input4<br>4 = Input5<br>5 = Input6<br>8 = Input9<br>9 = Input10<br>10 = Input11<br>11 = Input12 |          |
|       | AUDIO_AUX_BALANCE   | AB  | AB   | Audio auxiliary input balance                      | Rd/Wr        | 0         | 90        | 45            | 0 = max to the left, 45 = centered, 90 = max to the right                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                               |          |
|       | AUDIO_MUTE          | Au  | Au   | Audio output Mute control                          | Rd/Wr        | 0         | 1         | 0             | 1 = Mute.                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 = Main output<br>1 = Preview output                                                                                                         |          |
|       | AUDIO_MASTER_VOLUME | AV  | AV   | Output Master volume                               | Rd/Wr        | 0         | 255       | 255           | 0 = mute, 32 = -18dB , 255 = 0dB                                                                                                                                                                                                                                                                                                                                                                                                                   | 0 = Main output<br>1 = Preview output                                                                                                         |          |
|       | AUDIO_MODE          | Am  | Am   | Audio stereo mode                                  | Rd/Wr        | 0         | 1         | 1             | 0 = mono<br>1 = Stereo                                                                                                                                                                                                                                                                                                                                                                                                                             | 0 = Main output<br>1 = Preview output                                                                                                         |          |
|       | AUDIO_DELAY         | AD  | AD   | Delay between audio and video                      | Rd/Wr        | 0         | 80        | 0             | 0 = no delay<br>500ms = max delay                                                                                                                                                                                                                                                                                                                                                                                                                  | 0 = Main output<br>1 = Preview output                                                                                                         |          |
|       | AUDIO_AUTO_DELAY    | Ae  | Ae   | Automatic audio delay                              | Rd/Wr        | 0         | 1         | 1             | 0 = réglage manuel du Delay, 1 = réglage automatique du delay                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                               |          |
|       | AUDIO_SDI_CHAN_LEFT | Ac  | Ac   | ID of the Sdi channel to desembed for left channel | Rd/Wr        | 0         | 15        | 0             | 0 = Group A – Channel 1<br>1 = Group A – Channel 2<br>2 = Group A – Channel 3<br>3 = Group A – Channel 4<br>4 = Group B – Channel 1<br>5 = Group B – Channel 2<br>6 = Group B – Channel 3<br>7 = Group B – Channel 4<br>8 = Group C – Channel 1<br>9 = Group C – Channel 2<br>10 = Group C – Channel 3<br>11 = Group C – Channel 4<br>12 = Group D – Channel 1<br>13 = Group D – Channel 2<br>14 = Group D – Channel 3<br>15 = Group D – Channel 4 | 10 = Channel 11 – SDI 1<br>11 = Channel 11 – SDI 2<br>12 = Channel 11 – SDI 3<br>13 = Channel 12 – SDI 4                                      |          |

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| Group | Name                   | Cmd | Resp | Description                                          | Read / Write | Min Value | Max value | Default value | Values                                                                                                                                                                                                                                                                                                                                                                                                                                             | Index #1                                                                                                 | Index #2 |
|-------|------------------------|-----|------|------------------------------------------------------|--------------|-----------|-----------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------|
|       | AUDIO_SDI_CHAN_RIGHT   | AC  | AC   | ID of the Sdi channel to desembed for right channel  | Rd/Wr        | 0         | 15        | 1             | 0 = Group A – Channel 1<br>1 = Group A – Channel 2<br>2 = Group A – Channel 3<br>3 = Group A – Channel 4<br>4 = Group B – Channel 1<br>5 = Group B – Channel 2<br>6 = Group B – Channel 3<br>7 = Group B – Channel 4<br>8 = Group C – Channel 1<br>9 = Group C – Channel 2<br>10 = Group C – Channel 3<br>11 = Group C – Channel 4<br>12 = Group D – Channel 1<br>13 = Group D – Channel 2<br>14 = Group D – Channel 3<br>15 = Group D – Channel 4 | 10 = Channel 11 – SDI 1<br>11 = Channel 11 – SDI 2<br>12 = Channel 11 – SDI 3<br>13 = Channel 12 – SDI 4 |          |
|       | AUDIO_DESEMBEND_LOCKED | As  | As   | Information of audio channel presence for SDI inputs | Rd           | 0         | 1         | 1             | 1 : Locked                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10 = Channel 11 – SDI 1<br>11 = Channel 11 – SDI 2<br>12 = Channel 11 – SDI 3<br>13 = Channel 12 – SDI 4 |          |