

# FB4 and OSC

FB4 can be controlled through OSC. If you use the right syntax, you will be able to control all FB4's in your network. FB4 listens for OSC commands on TCP port 8000.

## FB4 Address prefix

The FB4 OSC address is based on the serial-number. The OSC address is buildup as follow:

```
/FB4-serial number/command value*
```

```
/serial number/command value*
```

The address must contain contains 5 digits. So if the FB4 serial is 1234, the address becomes 01234.

The following examples shows how you can set the parameter mode on FB4 with serial 2356.

```
/FB4-02356/operation_mode 1
```

```
/02356/operation_mode 2
```

## FB4 OSC Command List

| OSC Tag           | Minimum | Maximum | Symbol values  |
|-------------------|---------|---------|--|
| operation_mode    | 1       | 9       | 1 = BEYOND & QuickShow, 2 = ILDA, 3 = DMX, 4 = ARTNET, 5 = Autoplay, 6 = Timecode, 7 = Slave mode, 8 = Test mode, 9 = sACN |
| Master Brightness | 0       | 100     |  |
| master_size       | 20      | 100     |  |
| master_x_size     | 20      | 100     |  |
| master_y_size     | 20      | 100     |  |
| master_x_invert   | NO      | YES     | NO = 14006, YES = 14007  |
| master_y_invert   | NO      | YES     | NO = 14006, YES = 14007  |
| master_xy_swap    | NO      | YES     | NO = 14006, YES = 14007  |
| geo_x_size        | -100    | 100     |  |
| geo_y_size        | -100    | 100     |  |
| geo_x_position    | -100    | 100     |  |
| geo_y_position    | -100    | 100     |  |
| geo_z_rotation    | 0       | 360     |  |
| geo_x_keystone    | -100    | 100     |  |
| geo_y_keystone    | -100    | 100     |  |

| <b>OSC Tag</b>             | <b>Minimum</b> | <b>Maximum</b> | <b>Symbol values</b>                  |
|----------------------------|----------------|----------------|---------------------------------------|
| geo_x_shear                | -100           | 100            |                                       |
| geo_y_shear                | -100           | 100            |                                       |
| geo_hr_x_size              | -32767         | 32767          |                                       |
| geo_hr_y_size              | -32767         | 32767          |                                       |
| geo_hr_x_position          | -32767         | 32767          |                                       |
| geo_hr_Y_position          | -32767         | 32767          |                                       |
| geo_hr_z_rotation          | 0              | 65535          |                                       |
| color_shift                | 0              | 7              |                                       |
| color_red                  | 0              | 100            |                                       |
| color_green                | 0              | 100            |                                       |
| color_blue                 | 0              | 100            |                                       |
| color_darkblue             | 0              | 100            |                                       |
| color_yellow               | 0              | 100            |                                       |
| color_cyan                 | 0              | 100            |                                       |
| scanguard_enable           | NO             | YES            | NO = 14006, YES = 14007               |
| scanguard_horizon_level    | 0              | 100            |                                       |
| scanguard_horizon_angle    | -45            | 45             |                                       |
| scanguard_minimum_velocity | 0              | 300            |                                       |
| scanguard_dwell_time       | 1              | 300            |                                       |
| scanguard_attenuation      | SOFT           | HARD           | SOFT = 14010, HARD = 14011            |
| scanguard_x_invert         | NO             | YES            | NO = 14006, YES = 14007               |
| scanguard_y_invert         | NO             | YES            | NO = 14006, YES = 14007               |
| scanguard_xy_swap          | NO             | YES            | NO = 14006, YES = 14007               |
| dmx_channel                | 1              | 512            |                                       |
| dmx_termination            | OFF            | AUTO           | OFF = 14003, ON = 14004, AUTO = 14005 |
| dmx_profile                | FB3            | FB4            | FB3 = 14021, FB4 = 14022              |
| serial_mode                | 0              | 3              |                                       |
| dmx_patch_from             | 1              | 512            |                                       |
| dmx_patch_to               | 1              | 512            |                                       |
| dmx_patch_length           | 1              | 512            |                                       |
| artnet_universe            | 0              | 999            |                                       |
| artnet_channel             | 1              | 512            |                                       |
| dmx_artnet_timeout         | 0              | 50             |                                       |
| network_autoip             | NO             | YES            | NO = 14006, YES = 14007               |
| network_ip_address         | -2147483648    | 2147483647     |                                       |
| add1                       | 0              | 255            |                                       |
| add2                       | 0              | 255            |                                       |
| add3                       | 0              | 255            |                                       |
| add4                       | 0              | 255            |                                       |
| network_subnet_mask        | -2147483648    | 2147483647     |                                       |
| sub1                       | 0              | 255            |                                       |

| OSC Tag             | Minimum | Maximum | Symbol values                           |
|---------------------|---------|---------|---|
| sub2                | 0       | 255     |   |
| sub3                | 0       | 255     |   |
| sub4                | 0       | 255     |   |
| autoplay_playback   | NONE    | LIST    | NONE = 14012, CUE = 14013, LIST = 14014 |
| autoplay_file_index | 1       | 999     |   |
| autoplay_end_action | STOP    | LOOP    | STOP = 14016, LOOP = 14017              |
| rtc_year            | 2000    | 2099    |   |
| rtc_month           | 1       | 12      |   |
| rtc_day             | 1       | 31      |   |
| rtc_hour            | 0       | 23      |   |
| rtc_minutes         | 0       | 59      |   |
| rtc_seconds         | 0       | 59      |   |
| timecode_offset_h   | 0       | 12      |   |
| timecode_offset_m   | 0       | 59      |   |
| timecode_offset_s   | 0       | 59      |   |
| timecode_offset_ms  | 0       | 999     |   |
| timecode_file_index | 1       | 999     |   |
| kvant_magic_button  | 0       | 1       |   |

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