
OPERATION

GENERAL OPERATION

General Operation

The Control Unit receives DMX and retransmits it as received, modifying the DMX channels specified in its configuration with the levels set by the Fader Units connected to it. Up to 4 Fader Unit can be connected. If DMX is not received, the last good DMX received packet is re-transmitted, or all channels defaulted to 0 if no DMX has been received since powerup.

The Control unit is configured using an XML configuration file provided by a USB memory stick (see later in this manual for details of the configuration file).

Backlight button

Press to change the backlight brightness

MAIN SCREEN

Config name

The top left of the screen shows the name of the config (taken from the XML file <ConfigName> field)

DMX In

The top right of the screen shows the status of the DMX input:

OK DMX is being received
- No DMX data is being received

Faders

The remaining 4 lines of the screen show the status of each fader:

Fader name (taken from the XML file <Name> fields), or A, B, C, D if not provided)

Fader value

##.# %	The current position of the fader from 0.0% to 100.0 %
No fader	The fader is configured to be used, but isn't connected.
[blank]	The fader is not configured to be used

VIEW CONFIGURATION

Press and hold the screen backlight button for 3 seconds for the Control Units current configuration to be shown on the screen.

The configuration for Faders A – D is shown:

DMX	The DMX channel / first DMX channel that the fader is overwriting.
#bit	The number of channels that are being overwritten: 8bit 1 channel 16bitHL 2 channels 16bitLH 2 channels
Dis	What happens if the Fader Unit is disconnected: DMX The received DMX value is passed through unchanged 0-100 The fixed DMX % level that is output
Range	The corresponding Fader Unit is setting a DMX output value that changes from an output of the 1st percentage value shown when in its minimum position, to an output of the 2nd percentage value shown when in its maximum position. If DMX is shown instead of a percentage, the value of the received DMX sets the min or max.

CONFIGURATION FILE

The configuration file is an XML formatted file that is stored on a USB C memory stick and will be read when inserted into the CL-FSP Control Unit.

If a valid configuration file is found a confirmation message is shown on the screen followed by the configuration that has been stored. The USB memory stick can be removed. The configuration is stored and will be used until a new configuration file is provided.

Config file name

Use a filename that starts with "clfsp_" and ends with ".xml", e.g.
clfsp_myconfig.xml

If multiple files are present, the first found will be used.

The XML fields

<ClfspConfig>	The root XML block.
<ConfigName>	Name to be shown on the screen, max 13 ASCII characters (reduce if can't be shown due to too many wide characters). Default value is blank.
<FaderA>	Fader config block: FaderA, FaderB, FaderC or FaderD.
<Name>	Name of the fader to be shown on the screen, max 10 ASCII characters (reduce if can't be shown due to too many wide characters). Default values: A, B, C, or D
<DmxChannel>	The DMX address / first address this fader controls. Values: Disabled (default, fader disabled), or 1-512
<Resolution>	Values: 8bit, 16bit, 16bitLH 8bit One DMX channel 0-255 (default). 16bit 0-100% of the DMX output is expressed across two channels as 0-65535. High:Low channel ordering (typical). 16bitLH Low:High channel ordering
<FaderMinLevel>	DMX output percentage when fader is at its minimum position, range 0-100.
<FaderMaxLevel>	DMX output percentage when fader is at its maximum position, range 0-100. Can be a percentage value < FaderMinLevel to reverse the faders operation.
<FaderDisconnected>	Values: Passthrough (default), or specify a percentage value 0-100
<FaderMinLevelDmx>	Optional. If enabled and DMX data is being received, the received DMX overrides the <FaderMinLevel> setting (fader in min position would output the DMX level currently received. FaderMinLevelDmx can be used without FaderMaxLevelDmx being enabled. The DMX address / first address to set the fader min level. Values: Disabled (default), or 1-512 8bit or 16bit will be as set for <Resolution>

- <FaderMaxLevelDmx> If enabled and DMX data is being received, the received DMX overrides the <FaderMaxLevel> setting (fader in max position would output the DMX level currently received. FaderMaxLevelDmx can be used without FaderMinLevelDmx being enabled.
The DMX address / first address to set the fader max level.
Values: Disabled (default), or 1-512
8bit or 16bit will be as set for <Resolution>
- <!--Comment--> Comments can be included in the XML and their content will be ignored.

Example XML File:

```
<?xml version="1.0" encoding="utf-8"?>
<ClFspConfig>
  <ConfigName>MyLight 123</ConfigName>
  <FaderA>
    <Name>Pan</Name>
    <DmxChannel>1</DmxChannel>
    <Resolution>16bit</Resolution>
    <FaderMinLevel>0</FaderMinLevel>
    <FaderMaxLevel>100</FaderMaxLevel>
    <FaderDisconnected>Passthrough</FaderDisconnected>
  </FaderA>
  <FaderB>
    <Name>Tilt</Name>
    <DmxChannel>2</DmxChannel>
    <Resolution>16bit</Resolution>
    <FaderMinLevel>1</FaderMinLevel>
    <FaderMaxLevel>99</FaderMaxLevel>
    <FaderDisconnected>10</FaderDisconnected>
  </FaderB>
  <FaderC>
    <DmxChannel>Disabled</DmxChannel>
  </FaderC>
  <FaderD>
    <Name>D</Name>
    <DmxChannel>512</DmxChannel>
    <Resolution>8bit</Resolution>
    <FaderMinLevelDmx>Disabled</FaderMinLevelDmx>
    <FaderMaxLevelDmx>512</FaderMaxLevelDmx>
    <FaderDisconnected>12</FaderDisconnected>
  </FaderD>
</ClFspConfig>
```