

Partner: Loewe
Model: LCD Chassis SL1xx
Device Type: Display

**GENERAL INFORMATION:**

SIMPLWINDOWS NAME:	Loewe LCD v2.0.umc
CATEGORY:	Device Interface
VERSION:	V2
SUMMARY:	This module controls any Loewe LCD that can be externally controlled over RS-232
GENERAL NOTES:	<p>This module takes care of any normal operation for the LCD.</p> <p>For a complete simulation of the IR remote please use the "Loewe LCD IR v2.0.umc" module.</p> <p>Update v2.0: compatible with Chassis SL1xx</p> <p>Extra functionality:</p> <ul style="list-style-type: none">• Select Input HDMI3• Receiving input selection feedback on (no input selection just feedback):<ul style="list-style-type: none">○ HDR Playback○ Photoviewer○ Musicbox○ Videoplayer○ Medioplayer○ Internet Browser
CRESTRON HARDWARE REQUIRED:	Processor with a com port available.
SETUP OF CRESTRON HARDWARE:	Com Port Settings: 9600, 8, 1, N
VENDOR FIRMWARE:	V3.0.1
VENDOR SETUP:	The demo program was tested on a SL150.

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CONTROL:

Rx	S	To be connected with the Rx\$ of the com port
Feedback_On	D	Pulse to enable all feedback
Feedback_Off	D	Pulse to disable all feedback
Mode_X	D	Pulse to switch to the corresponding mode
Volume_Up	D	Pulse to raise volume by 1
Volume_Down	D	Pulse to lower volume by 1
Volume	A	Set volume. Range: 0d → 99d
Mute_On	D	Pulse to mute
Mute_Off	D	Pulse to unmute
Channel	A	Set channel. Range: -12d → [Max Channel]
AV1 – HDMI3	D	Pulse to switch to corresponding AV channel
Music_Bass_Up	D	Pulse to raise music bass by 1
Music_Bass_Down	D	Pulse to lower music bass by 1
Music_Bass	A	Set music bass. Range: -12 → +12
Movie_Bass_Up	D	Pulse to raise movie bass by 1
Movie_Bass_Down	D	Pulse to lower movie bass by 1
Movie_Bass	A	Set movie bass. Range: -12 → +12
Music_Treble_Up	D	Pulse to raise music treble by 1

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Music_Treble_Down	D	Pulse to lower music treble by 1
Music_Treble	A	Set music treble. Range: -12 → +12
Movie_Treble_Up	D	Pulse to raise movie treble by 1
Movie_Treble_Down	D	Pulse to lower movie treble by 1
Movie_Treble	A	Set movie treble. Range: -12 → +12
Brightness_Up	D	Pulse to raise brightness by 1
Brightness_Down	D	Pulse to lower brightness by 1
Brightness	A	Set brightness. Range: -12 → +12
Contrast_Up	D	Pulse to raise contrast by 1
Contrast_Down	D	Pulse to lower contrast by 1
Contrast	A	Set contrast. Range: -12 → +12
Color_Up	D	Pulse to raise color by 1
Color_Down	D	Pulse to lower color by 1
Color	A	Set color. Range: -12 → +12
Sharpness_Up	D	Pulse to raise sharpness by 1
Sharpness_Down	D	Pulse to lower sharpness by 1
Sharpness	A	Set sharpness. Range: 1d → 5d

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FEEDBACK:

Tx	S	To be connected to the Tx\$ of the com port
Feedback_On_Fb	D	High when feedback is enabled
Feedback_Off_Fb	D	High when feedback is disabled
Mode_X_Fb	D	High when the corresponding mode is active
Teletext	D	High when teletext is shown
EPG_Update	D	High when an EPG update is in progress
Pip_On	D	High when PIP is on
Pip_Off	D	High when PIP is off
Pip_Split	D	High when PIP split is on
Volume_Fb	A	Volume feedback. Range: 0d → 99d
Mute_On_Fb	D	High when mute is on
Mute_Off_Fb	D	High when mute is off
Channel_Fb	A	Channel feedback. Range: -12 → [Max Channel]
Channel_Name_Fb	S	Channel name
AV1_FB – Internet Browser Fb	D	High when the corresponding AV channel is active
Music_Bass_Fb	A	Music bass feedback. Range: -12d → 12d
Movie_Bass_Fb	A	Movie bass feedback. Range: -12d → 12d
Music_Treble_Fb	A	Music treble feedback. Range: -12d → 12d

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Movie_Treble_Fb	A	Movie treble feedback. Range: -12d → 12d
Brightness_Fb	A	Brightness feedback. Range: -20d → 20d
Contrast_Fb	A	Contrast feedback. Range: -20d → 20d
Color_Fb	A	Color feedback. Range: -20d → 20d
Sharpness_Fb	A	Sharpness feedback. Range: 1d → 5d

TESTING:

OPS USED FOR TESTING:	PRO2 4.003.0015 (Oct 04 2010)
COMPILER USED FOR TESTING:	V 3.00
SAMPLE PROGRAM:	Loewe LCD v2.0 Demo Program.smw
REVISION HISTORY:	V2