



**Manufacturer: Crestron Germany**  
**Model: Loewe LCD**

**GENERAL INFORMATION:**

<b>SIMPLWINDOWS NAME:</b>	Loewe LCD v3 CG
<b>CATEGORY:</b>	TV
<b>VERSION:</b>	v3
<b>SUMMARY:</b>	Offers bi-directional control of Loewe LCD TVs via serial communication.
<b>GENERAL NOTES:</b>	-
<b>CRESTRON HARDWARE REQUIRED:</b>	3-series processor
<b>SETUP OF CRESTRON HARDWARE:</b>	Serial connection to Loewe LCD TV established.
<b>VENDOR FIRMWARE:</b>	Tested with: Loewe Chassis SL3xx V4.1.0



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<b>CONTROL:</b>		
Rx	S	Connect to [rx\$] of serial interface.
Feedback_On	D	Pulse to receive information from the TV.
Feedback_Off	D	Pulse to no longer receive information from the TV.
Mode_Tv	D	Pulse to switch to "tv" mode.
Mode_Audio	D	Pulse to switch to "audio" mode.
Mode_Radio	D	Pulse to switch to "radio" mode.
Mode_Photo	D	Pulse to switch to "photo" mode.
Mode_Standby	D	Pulse to switch to "standby" mode.
AV1	D	Pulse to switch to "AV1".
AVS	D	Pulse to switch to "AVS".
VGA	D	Pulse to switch to "VGA".
HDMI1	D	Pulse to switch to "HDMI1".
HDMI2	D	Pulse to switch to "HDMI2".
HDMI3	D	Pulse to switch to "HDMI3".
HDMI4	D	Pulse to switch to "HDMI4".
AudioIn1	D	Pulse to switch to "AudioIn1".
AudioDigitalIn	D	Pulse to switch to "AudioDigitalIn".



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<b>CONTROL:</b>		
Mute_On	D	Pulse to enable mute.
Mute_Off	D	Pulse to disable mute.
Volume_Up	D	Pulse to increment volume.
Volume_Down	D	Pulse to decrement volume.
Volume	A	Set an absolute value for volume directly.
Music_Bass_Up	D	Pulse to increment music_bass.
Music_Bass_Down	D	Pulse to decrement music_bass.
Music_Bass	A	Set an absolute value for music_bass directly.
Movie_Bass_Up	D	Pulse to increment movie_bass.
Movie_Bass_Down	D	Pulse to decrement movie_bass.
Movie_Bass	A	Set an absolute value for movie_bass directly.
Music_Treble_Up	D	Pulse to increment music_treble.
Music_Treble_Down	D	Pulse to decrement music_treble.
Music_Treble	A	Set an absolute value for music_treble directly.
Movie_Treble_Up	D	Pulse to increment movie_treble.

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<b>CONTROL:</b>		
Movie_Treble_Down	D	Pulse to decrement movie_treble.
Movie_Treble	A	Set an absolute value for movie_treble directly.
Brightness_Up	D	Pulse to increment brightness.
Brightness_Down	D	Pulse to decrement brightness.
Brightness	A	Set an absolute value for brightness directly.
Contrast_Up	D	Pulse to increment contrast.
Contrast_Down	D	Pulse to decrement contrast.
Contrast	A	Set an absolute value for contrast directly.
Color_Up	D	Pulse to increment color.
Color_Down	D	Pulse to decrement color.
Color	A	Set an absolute value for color directly.
Sharpness_Up	D	Pulse to increment sharpness.
Sharpness_Down	D	Pulse to decrement sharpness.
Sharpness	A	Set an absolute value for sharpness directly.
Channel	A	Set an absolute channel directly.



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<b>FEEDBACK:</b>		
Tx	S	Connect to [tx\$] of serial interface.
Feedback_On_Fb	D	High: Indicates that the TV will provide information about any changes.
Feedback_Off_Fb	D	High: Indicates that the TV will not provide information about any changes.
PowerMode_Standby_Fb	D	High: Indicates that the TV's power mode is "standby".
PowerMode_Active_Fb	D	High: Indicates that the TV's power mode is "active".
PowerMode_Audio_Fb	D	High: Indicates that the TV's power mode is "audio".
PowerMode_Radio_Fb	D	High: Indicates that the TV's power mode is "radio".
PowerMode_Tv_Fb	D	High: Indicates that the TV's power mode is "tv".
SubMode_Off_Fb	D	High: Indicates that the TV's sub-mode is "off".
SubMode_Wakeup_Fb	D	High: Indicates that the TV's sub-mode is "wakeup".
SubMode_On_Fb	D	High: Indicates that the TV's sub-mode is "on".
SubMode_EPG_Fb	D	High: Indicates that the TV's sub-mode is "epg".
SubMode_Busy_Fb	D	High: Indicates that the TV's sub-mode is "busy".
SubMode_Teletext_Fb	D	High: Indicates that the TV's sub-mode is "teletext".
SubMode_Photo_Fb	D	High: Indicates that the TV's sub-mode is "photo".
SubMode_Music_Fb	D	High: Indicates that the TV's sub-mode is "music".
SubMode_Video_Fb	D	High: Indicates that the TV's sub-mode is "video".
Pip_On_Fb	D	High: Indicates that PIP is active.

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<b>FEEDBACK:</b>		
Pip_Off_Fb	D	High: Indicates that PIP is in-active.
Rec_Off_Fb	D	High: Indicates that recording to DR+ is in-active.
Rec_On_Fb	D	High: Indicates that recording to DR+ is active.
AV1_Fb	D	High: Indicates that "AV1" is selected.
AVS_Fb	D	High: Indicates that "AVS" is selected.
VGA_Fb	D	High: Indicates that "VGA" is selected.
HDMI1_Fb	D	High: Indicates that "HDMI1" is selected.
HDMI2_Fb	D	High: Indicates that "HDMI2" is selected.
HDMI3_Fb	D	High: Indicates that "HDMI3" is selected.
HDMI4_Fb	D	High: Indicates that "HDMI4" is selected.
AudioIn1_Fb	D	High: Indicates that "AudioIn1" is selected.
AudioDigitalIn_Fb	D	High: Indicates that "AudioDigitalIn" is selected.
Mute_On_Fb	D	High: Indicates that mute is active.
Mute_Off_Fb	D	High: Indicates that mute is in-active.
Volume_Fb	A	The currently set volume.
Music_Bass_Fb	A	The currently set music_bass.



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<b>FEEDBACK:</b>		
Movie_Bass_Fb	A	The currently set movie_bass.
Music_Treble_Fb	A	The currently set music_treble.
Movie_Treble_Fb	A	The currently movie_treble.
Brightness_Fb	A	The currently set brightness.
Contrast_Fb	A	The currently set contrast.
Color_Fb	A	The currently set color.
Sharpness_Fb	A	The currently set sharpness.
Channel_Fb	A	The currently set channel.



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**PARAMETERS:**

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**TESTING:**

<b>OPS USED FOR TESTING:</b>	MC3: 1.501.0013
<b>SIMPL WINDOWS USED FOR TESTING:</b>	4.03.20
<b>CRESTRON DB USED FOR TESTING:</b>	54.05.005.00
<b>DEVICE DB USED FOR TESTING:</b>	72.00.001.00
<b>SAMPLE PROGRAM:</b>	Loewe_Demo.smw