

SIMPLWINDOWS NAME: Barco iQ Projector Full Control

CATEGORY: TV/Video Projector

VERSION: 1.0

SUMMARY: This module controls the Barco iQ Series Projectors. This module was tested with the iQ G300.

GENERAL NOTES: This module provides full control of the Barco iQ Series projectors. It provides real feedback.

NOTE: If the Poll==1 input is held high the module will poll the projector for its status continually. If it is set low, the module will poll the projector for 2 minutes after a button press.

NOTE: To get feedback for the Picture settings pulse the Poll_Picture_Settings input.

NOTE: To get lamp hours hold the Poll_Lamp_Hours==1 high. Lamp hours will be polled for at the interval set in the Lamp Hours Poll Time==60 parameter field.

CRESTRON HARDWARE REQUIRED: CNCOMH-2
ST-COM
CNXCOM-2
C2COM

SETUP OF CRESTRON HARDWARE: Baud Rate - 57600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: Software 01.22

VENDOR SETUP: NONE

CABLE NUMBER: CNSP-121

CONTROL:

Power_On/Off/Toggle	D	Pulse to adjust the projector power.
Input_Video_1	D	Pulse to select the Video input.
Input_S-Video_1	D	Pulse to select the S-Video input.
Input_RGB_1	D	Pulse to select the RGB input.
Input_PC_1	D	Pulse to select the PC input.
Input_DVI_1	D	Pulse to select the DVI input.
Picture_Mute_On	D	Pulse to turn the Picture Mute on.
Picture_Mute_Off	D	Pulse to turn the Picture Mute off.
Picture_Mute_Toggle	D	Pulse to toggle the Picture Mute.
Freeze_On/Off/Toggle	D	Pulse to adjust the freeze state.
Aspect_Ratio_Normal	D	Pulse to select the 4:3 aspect ratio.
Aspect_Ratio_Wide	D	Pulse to select the 16:9 aspect ratio.
Aspect_Ratio_Zoom	D	Pulse to select the 5:4 aspect ratio.
Aspect_Ratio_Auto	D	Pulse to select the auto aspect ratio.
Lamp_Mode_Single/Dual	D	Pulse to select the lamp mode.
Contrast_Up/Down	D	Push and hold to adjust the contrast.
Brightness_Up/Down	D	Push and hold to adjust the brightness.
Saturation_Up/Down	D	Push and hold to adjust the saturation.

Tint_Up/Down	D	Push and hold to adjust the tint.
Gamma_Up/Down	D	Push and hold to adjust the gamma.
Phase_Up/Down	D	Push and hold to adjust the phase.
Poll_Lamp_Hours==1	D	Hold high to get the lamp hours.
Poll_Picture_Settings	D	Pulse to get the picture settings.
Poll==1	D	Hold high to poll the projector continuously.
From_Device\$	S	Serial signal to be routed from a 2-way RS232 port.

PARAMETERS:

Projector Address(Hex) ==01	P	Set the address of the projector to control. Must use two digits with nothing after them. i.e. for address 1 use 01.
Lamp Hours Poll Time==60	P	Set the number of minutes between the polls for lamp hours.

FEEDBACK:

Power_On/Off_Fb	D	High to indicate the current power status.
State_Cooling_Down	D	High to indicate that the projector is in the cool down state.
Picture_Mute_On/Off_Fb	D	High to indicate the current picture mute status.
Freeze_On/Off_Fb	D	High to indicate the current freeze status.
Aspect_Ratio_Normal_Fb	D	High to indicate that the 4:3 aspect ratio is selected.
Aspect_Ratio_Wide_Fb	D	High to indicate that the 16:9 aspect ratio is selected.
Aspect_Ratio_Zoom_Fb	D	High to indicate that the 5:4 aspect ratio is selected.
Aspect_Ratio_Auto_Fb	D	High to indicate that the auto aspect ratio is selected.
Lamp_Mode_Single/Dual_Fb	D	High to indicate the current lamp mode.
Lamp_*_On_Fb	D	High to indicate that the lamp is on.
Lamp_*_Hours_Analog	A	Analog value to be displayed on a digital gauge on a touch panel.
Contrast_Bar	A	Contrast value to be displayed on a bar graph.
Brightness_Bar	A	Brightness value to be displayed on a bar graph.
Saturation_Bar	A	Saturation value to be displayed on a bar graph.
Tint_Bar	A	Tint value to be displayed on a bar graph.
Gamma_Bar	A	Gamma value to be displayed on a bar graph.
Phase_Bar	A	Phase value to be displayed on a bar graph.
To_Device\$	S	Serial signal to be routed to a 2-way RS232 port.

OPS USED FOR TESTING: 5.12.63x
3.029

COMPILER USED FOR TESTING: SimplWindows Ver. 2.03.18

SAMPLE PROGRAM: Barco iQ Projector Full Control Demo PRO2
Barco iQ Projector Full Control Demo
CNMSX

REVISION HISTORY: None