

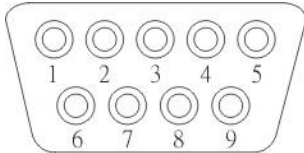
1. Scope and references

This document describes the protocol used on the serial interface of the LCS 30 Series serial model.

The communication uses a standard RS232 & RJ45 interface for GENESIS Chipset..

The baud rate is configurable via the OSD menu, and defaults to 115200 bps.

2. RS232C pin-connection configuration



Pin No.	Signal name	Signal items	I/O (in projector)
1	CD	Not used	-
2	RXD	Reception data	Output
3	TXD	Transmission data	Input
4	DTR*	Data terminal ready	Input
5	SG	Signal ground	Ground
6	DSR*	Data set ready	Output
7	RTS*	Transmission request	Input
8	CTS*	Transmission enable	Output
9	CI	Not used	-

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3. Command Type

Status name	Status
Communication system	Transmission speed : 9600, 19200, 38400, 115200 bps Parity bit : NO, Data length : 8bit, Stop bit : 1bit
Communication type	1 Block consists of STX (1Byte) + IDT(1Byte) + Read/ Write(1Byte) + CMD(3Byte) + ETX (1Byte).

STX: Start byte

IDT: Monitor ID

Read /Write: Read / Write byte

Command: Command byte

ETX: stop byte

3.1 Common Adjust

Item	Contents	CMD
Brightness	Selects brightness adjustment	BRI
Contrast	Selects contrast adjustment	CON
HUE	Selects HUE adjustment	HUE
Saturation	Selects Saturation adjustment	SAT
User Color-R	Selects User Color-R adjustment	USR
User Color-G	Selects User Color-G adjustment	USG
User Color-B	Selects User Color-B adjustment	USB
Zoom in	Selects Zoom in adjustment	ZIN
Zoom out	Selects Zoom out adjustment	ZOU

3.2 Graphics Mode Adjust

Item	Contents	CMD
Black Level	Selects Black Level adjustment	BLK
Phase	Selects Phase adjustment	PHS
Clock	Selects Clock adjustment	CLK
Auto Adjustment	Auto Adjustment	ADJ
Auto White Balance	Auto White Balance adjustment	WHB

3.3 Video Mode Adjust

Item	Contents	CMD
Sharpness	Selects Sharpness adjustment	SHA

3.4 Scaling Adjust

Item	Contents	CMD
1:1	Adjustment picture scaling to 1:1	ONE
Full	Adjustment picture scaling to full screen	FUL
Aspect	Adjustment picture scaling to best aspect ratio	ASP

3.5 Read Status





Item	Contents	CMD
Power	Read the power status from client/controller	RPO
PIP	Read the PIP status from client/controller	RPI
Input Source	Read the input source status from client/controller	RIN
Color Temperature	Read the color temperature status from client/controller	RCO
Gamma	Read the Gamma status from client/controller	RGA

3.6 Normal Setting

Item	Contents	CMD
Power	Switch monitor power on or off.	POW
PIP	Select PIP adjustment	PIP
PIP/S	Select PIP small size setting	PIS
PIP/M	Select PIP medium size setting	PIM
PIP/L	Select PIP Large size setting	PIL
VGA	Select input source-VGA	VGA
DVI	Select input source-DVI	DVI
S-Video	Select input source-S-Video	SVI
Composite	Select input source-Composite	SIT
Component	Select input source-Component	NEN
User Color	Select User color setting	COA
6500K	Select 6500K setting	COB
9300K	Select 9300K setting	COC

3200K	Select 3200K setting	COD
5400K	Select 5400K setting	COE
Gamma off	Select Gamma off setting	GAO
2.2	Select Gamma 2.2 setting	GAP
2.4	Select Gamma 2.4 setting	GAQ
Exit Menu	Exit OSD menu setting	EXI
All Reset	Reset to factory default setting	ALL

3.7 Direct and Number

Item	Contents	CMD
	Adjusts movement to up or data value increase	UPD
	Adjusts movement to down or data value decrease	DOW
	Adjusts movement to left	LEF
	Adjusts movement to right	RIG
0	Input the value-0	NU0
1	Input the value-1	NU1
2	Input the value-2	NU2
3	Input the value-3	NU3
4	Input the value-4	NU4
5	Input the value-5	NU5
6	Input the value-6	NU6
7	Input the value-7	NU7
8	Input the value-8	NU8
9	Input the value-9	NU9