



LC-XIP2000

LCD projector Service Manual



Version A Feb. 14, 2007

- Revision History

Project	Approval date	Leader	Description	Device changed	Comment

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Chapter 1 Trouble shooting

Cautions when replacing the Optical Engine and Main board :

◎ 1. Make sure the IC# 24LC256 on main board U619 location always goes with its original optical engine when you replace the main board or Optical Engine.

② 2. Make sure the direction of the IC# 24LC256 on main board.

◎ 3. Execute "Keystone calibration " and "C&B calibration" when you replace Main board every time. Otherwise the screen will become keystone distortion or miss gray level. (please refer to page *P45* and *P46*)

1.1 The color parameter is kept in 24LC256(locate at U619),

and the color parameter is different due to different optical engine.

- 1.2 EDI will provide a new 24LC256 with a new optical engine when you need to change an optical engine. The color parameter settings of the 24LC256 have to match with the optical engine in EDI factory.
- 1.3 When you replace an optical engine or main board, please always confirm the 24LC256 go with its original optical engine.
- 2.1 Make sure the direction of 24LC256 on main board, the mark (*) at the left side.

U619



- 3.1 Keystone calibration function is to help the projector execute the keystone function automatically.
- 3.2 The C&B calibration function is to optimize the picture performance.

Troubleshooting



- LED Lamp Indicator

Indicators

The Power and Lamp indicators show the status of the projector. Before requesting repair, check the projector status using the chart below. If the problem cannot be resolved contact your dealer.

Power	(Green)	Lamp (Red)	Conditions	INotes
Slowf	lashing	Off	Stand by	*Projector is ready to be turned on (normal)
-)	k-		mode	
C 0)n	Off	On mode	*Projector is on and operating normally
C 0)n	Slow flashing	Cool-down	*Projector is in cool-down mode and will not respond
			mode	to user input (normal)
)n	Fast flashing	Fan-fault	* The projector has detected a problem with an
			mode	internal fan, the lamp will shut off automatically,
		É		contact your dealer
Fast fl	ashing	On	Lamp-cove	*The lamp cover is open or there is a problem with the
-	5-	0	r open	lamp. If the lamp door is closed and replacing the lamp
	T.			does not correct the issue, contact your dealer.
Fast fl	ashing	Fast flashing	High	*The projector has overheated and shut the lamp off.
-	5-	-6-	temperatur	Correct the over temp condition immediately.
	Ĩ`	νī.	е	1. Check that the ventilation slots are free from
				obstructions
				2. Check the cleanliness of the air filter.
				3. If the condition persists, contact your dealer

problem canno	of be resolved	d contact y	our dealer.
Derman (Conserv)	T (D 1)	Con distance	DT-+

Symptom	Possible cause	Remedy
The power is	*The main power switch is not turned	*Turn on the main power switch.
not turned on	on.	*Plug the power cord into an AC
	*The power cord is disconnected.	power outlet
No video	*The input is not correctly connected.	*Select the appropriate input
	*No signal input	source
	*No open lens cover	*Connect correctly
		*Remove the lens cover
No audio	*The projector is not correctly	*Check audio cable connect
	connected.	correctly.
	*The volume is set to minimum.	*Adjust the volume.
	*Mute is turned on	*Press the MUTE button
No remote	*No battery	*Check battery of remote
function	*Remote signal be obstructed	controller
		*Remove obstacle between
		projector and remote controller
Colors are	*Color density and color matching are	*Adjust the RGB setting.
pale	not correctly adjusted.	*Check VGA cable.
-	*Color lose	
Abnormal	*Brightness and contrast are not	*Adjust the brightness and
brightness &	correctly adjusted.	contrast setting.

Troubleshooting

- Troubleshooting flow chart



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Troubleshooting

A.No Image Troubleshooting Start Check LED indicator on keypad Green off Change Change ves→ no no keypad power Red off supply í yes yes Check) Green fast flashing yes change lamp END ves→ door switch Red on 1 nono Check / change Green fast flashing Check) Check / no no no thermal switch change Lamp²→ yes→ change Red fast flashing connector ⊁Ballast thermal sensor connector yes yes yes no Check fan pin2 Green on Change voltage - 5V yes no.failed fan Red fast flashing—yes-(J1, J4, J5, dо J6,J15) no no Green on yes END Red off Change Main Board, no but keep the same no 24LC256 No trouble found LC-XIP2000 Service 10 Yes Manual Ver. A END

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B.Poor Image quality Troubleshooting (flicker, discolor, streak..etc)



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C.DVD / OSD Function Troubleshooting



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D. Audio Function troubleshooting



E. Remote Control troubleshooting



F. Keypad troubleshooting



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Chapter 2 M/B Firmware Download

M/B firmware Download SOP

Hardware Connection: A. Power cable B. RS-232C-to-PS2 cable (part number: 13660016) C. Power switch must be turned " OFF". COMPUTER IN 1 DNITOR OUT PUTER IN 2 RS-232C-to-Power Power PS2 cable switch cable

1. Please make sure your PC had already been installed "<u>Microsoft .NET Framework Version 2.0</u>". If not, please visit Microsoft website to download and install. (Picture 1).



2. If you are WinXP and Win2000 user, but can not install "Microsoft .NET Framework Version 2.0", Please visit Microsoft website to download and install <u>"Windows Installer 3.1"</u>first, then install "Microsoft .NET Framework Version 2.0 "again. (Picture 2)



(Picture 2)

-M/B Firmware

3. Please make sure the "Microsoft .NET Framework Version 2.0" had been installed completely. Then, open the firmware folder. Execute the "ED_UpgradeFlasher.exe "(Picture 3).

	📜 Test3 1	EX1700ss '	Ver1_21 fo	or SVGA.rar ·	WinRAR					_ 🗆 >
	檔案①	命令(<u>C</u>)	工具(<u>S</u>)	我的最愛(O) 選項(N)	説明(H)				
			「 宿到 現			山 尋找	<mark>戦会</mark> 精霊			】 注解
		1_21	for SVGA	rar\Test3 EΣ	(1700ss Ver1_2	1 for SVGA	- RAR 壓縮	檔,未封裝	大小 2,834	,585位元組 💌
	名稱(6		大小	封裝後	類型		修改的F	期	CRC32
	``					資料夾				
	📓 appec	ode.hex		2,019,308	516,109	檔案hex		2006/2/7	上午 1	D74D8104
_	- The second sec	ode.inf		2,317	1,001	安裝資訊		2004/1/9	下午 0	90453E4E
	boot:	ode.hex:		20,584	7,583	檔案 hex		2006/2/7	上午 1	0946C74E
	ED_U	JpgradeFla	sh	445,440	183,742	應用程式		2006/1/2	下午0	DCBC6A
	🖌 🚮 flashe	er.hex		31,544	10,359	檔案hex		2006/2/7	上午1	4CE114A0
	Flash	Upgrader.e	xe	315,392	121,314	應用程式		2003/12/	8 下午	36427C16
	ž 📭 🔁	難取 445,4	40 位元組	,共計1個構	當案	總共	ŧ 2 , 834,585 †	位元組,共	計6個檔3	Ę
				(P	icture 3)					

4. After execute the "ED_UpgradeFlasher.exe "(Picture 3), you will see the window (Picture 4). Please select the right COM Port.

III ED_UpgradeFlasher 程式	
COM Port :	COM1
Execute	Exit
	19200 baud rate Ver : 0.55



5. Please "turn on" the power switch of the projector (Picture 5), and execute the "Execute" button (Picture 6).



(Picture 5)

ED_UpgradeFlasher	程式			
	COM Port :	СОМ1	×	
	Execute		Exit	
l]		
			19200 baud ra	ate Ver : 0.55



6. The PixelWorks ImageProcessor SDK FlasherUpgrader will process automatically (Picture 7).

🔁 NEW	
檔案(E) 編輯(E) 檢視(Y) 我的最愛(A) 工具(I)	說明(田)
🔇 上一頁 🔹 🚫 - 🎓 🎾 搜尋 🍋 資料	挾 Ⅲ-
網址 (D) 🗁 H:\Documents and Settings\chunyuancheng\桌面	面VCY_UpgradeFlasher\Processes-OK-05-08-2006-5\NEW
檔案及資料 ED ED_UpgradeFlasher	
 ・ 一前 將這個 ・ COM PORT: COM1 ・ ・ ・	Options Delay Time(msec): 500
☐ 複製這(▲ 將這個) Execute EXII	Pixelworks ImageProcessor SDK FlashUpgrader
 ○ 以電子: ★ 刪除這(Directory: H:\Documents and Settings/chunyuancheng/桌面/CY_Upgrade. Flash File: sppcode.inf
Copyright (c) 2006 E	Files To Download
其他位置	File Start End Length Connection
 Processes-OK-05-08-2006-5 3. 我的文件 3. 我的電腦 	appcode.hex 0x10000 0xCA1A4 762276 COM Port
劉網路上的芳鄰	
詳細資料 《	Options Modes Flash C Verify C Erase
ED_UpgradeFlasher 應用程式	Notify On Completion Bytes: 157696 20%
修改日期: 2006年5月9日, 下午 12:01 大小: 116 KB	Reset Target After Download Cancel

(Picture 7)

7. When the firmware is flashed completely, you will see the below picture (Picture 8). Please press "OK" to quit this program.

Pixelworks	ImageProcessor SDK	. FlashUpgrad	er		_ 🗆 ×
Directory:	D:\FW\EX-172028	SVEX1700 Ver	1_22PS for View	vsonic_SVGA	Choose
Flash File:	appcode.inf			•	
	Files To Download				
	File	Start	End I	ength	Connection
Ę	嶘 flasher.hex 🖪	ashUpgrader	×	135	Serial 💌
t ^{by} works	appcode.hex	Fla	sh Completed!	33391	COM Port COM2: Baud Rate 115200
pixel	Continuous Fl Reset Time (n	ash Mode ns) 3000	• Flash	C Verify	C Erase
	 ✓ Notify On Con ✓ Reset Target A 	mpletion After Downloa	Bytes: d Flash	<u>C</u> loæ	Help

(Picture 8)

8. If you need to re-flash another projector, please repeat Item 4 to 7 steps.

Chapter 3 Disassembly

Disassembly



- Parts List

No.	Name	Q t	No.	Name	Q tv
1	Mylar AC PF	1	26	Cover SW	1
2	AC filter	1	27	Lens adaptor	1
3	Plate AC Filter	1	28	Case BTM A	1
4	Optical engine assy. with LCD panel	1	29	Lens Housing	1
5	Cover bottom MB EMI	1	30	Conversion lens	1
6	MB plate	1	31	Lens Cover	1
7	IO case	1	32	Adjust foot A	1
8	Ballast	1	33	CMOS Front Panel	1
9	Ballast case	1	34	Case Inlet Cover MO2	1
10	Plate ballast EMI MO1	1	35	Case Inlet Press A	1
11	FRPP	1	36	Cover lamp	1
12	Power supply	1	37	Card holder	1
13	Power case	1	38	Rubber foot back	1
14	IR B assy.	1	39	Case BTM EMI	1
15	Main Board	1	40	Case flow in	1
16	Cover top MB EMI	1	41	Pronpet Flow Base	1
17	Keypad board	1	42	Case Air Panel	1
18	Case keypad	1	43	Blower fan 1 toto TYF450 LJ05	1
19	Plate MB GND	1	44		
20	Case top A	1	45		
21	IR Filter	1	46		
22	Inlet fan AD0612 HB-A72GL	1	47		
23	Blower fan 2 toto TYF400 LJ09	1	48		
24	Assy. Exhaust	1	49		
25	IR receiver	1	50		

26

Disassembly

- Screws List

No.	Specification	Q'ty	Be used to	Photos
1	Z3*30	4	Blower	
2	M3*8	12	Top cover(5), Case IO(2), Lamp cover(1) , Lens Housing (4)	
3	BM2*10	2	Cover switch	Contraction of the local division of the loc
4	BM3*8	25	Case flow in Assy(3), AC Filter(2), Power supply(4), Ballast(2), Case air panel(5), Plate MB GND(1), Plate IO(1), IR F(1), Lens Housing (2), Exhaust duct(2), MB(2)	and the second
5	M2.6*18	2	Adjust foot	(Anternational States
6	M3X6	4	OP Engine	Connenno
7	M3*5+Washer	2	Lamp holder	and the second s
8	M3*6+Washer	5	MB(4), Plate IO(1)	
9	BM3*5+Washer	1	AC Filter	
10	M4*6	1	AC Filter(Ground)	-io-
11	HEX Hand M2.8*7	6	Plate I/O	
12	M3*5+Washer	2	Lens adapter	Ma
13	M3*5	4	Key Pad	

Disassembly

Disassembly SOP

1.Bottom Cover Sponge Disassembly

A. Push Case Inlet Cover out of slot

B.Take Sponge off





2.Lamp Module Disassembly

A. .Take off Screw BM3x8 1 pcs and remove Lamp Cover



B.Take off Screw BM3x12 2 pcs from Lamp Module

C.Pull Lamp Module out



3.Top Cover Disassembly

A.Take off Screw BM3x8 2 pcs from





C. Unscrew BM3x8 1 pcs to take off IR receiver



Disassembly

4.Top Cover Disassembly

A. Unscrew 5 pcs M3*8 screws

- **B**. Turn projector around and take top case off



C. Pull out Keypad FPC cable carefully



5. Key Pad Disassembly

A. Take off 4 M3*5 screws



Disassembly

6. IO Case Disassembly

A. Take off 2 M3*8 screws



7. Main Board Disassembly

- A. Take off 4 pcs M3*6+washer (A)
- B. Unassembled EMI_Top_Cover carefully.
- C. Take off 2 pcs BM3*8 (B)



C.Take out speaker (no screw)



8. Main Board Connections



•Caution :

Make sure the direction of Keypad FPC cable , if the direction is wrong , the keypad will no function



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9. M/B Plate, IR Assy Disassembly

- A. Unscrew 1pcs M3*8(A)
- **B.** Unscrew 1pcs BM3*8(B)
- C. Unscrew 6pcs HEX Head M2.8*7(C) to take of M/B plate
- **D.** Carefully take apart EMI_Bottom_Cover to avoid dropping it down.
- E. Unscrew 1pcs M3*6+Washer to take off IR assy.





Disassembly

10. Inlet Fan Disassembly

A. Take off Fan (no screws).



11. Power Supply Module Disassembly

A.Unscrew BM3x8 6 pcs to take off Power and Ballast Module holder



B. Remove cover protection sheet as below picture



12. Power Supply Module Disassembly

C. Take off COM1 and COM2 Jack by pressing and pulling out the hook as picture below



D.Take Power Module holder out of 4 hooks



13. Ballast Module Disassembly

A. Unscrew 2pcs M3*5+Washer to take off ballast Jack



B.Unscrew BM3x8 1 pcs to disassembe Ballast Case and Plate Ballast EMI MO1



14. Ballast / Power Supply Module Connect

A. Make sure the connection of Ballast / Power Supply Module to other parts is correct



15. AC Filter Disassembly

- A. Unscrew 2pcs BM3x8(A) to take off AC Filter.
- **B.** Remove 1pcs M4*6(B) to take off AC Filter GND wire. (B)



B. Make sure AC filter is grounded



16.Take out Exhaust Duct

A.Unscrew BM3x8 2 pcs to take off Exhaust Duct module as below picture



17. Take out Optical Engine Module

A. Unscrew M3x6 4 pcs to take off Optical Engine module as below picture



18.Take out Plate_MB_GND

A. Unscrew BM3x8 to disassemble Plate_MB_GND part.



Disassembly

19. Case Air Panel and Flow Disassembly

A. Unscrew 5 pcs BM3*8 to take off Case Air Panel



C. Unscrew 4pcs Z3*30(B) to take off Blowers



Disassembly

20. Cover SW, Adjust foot A, Case BTM EMI

- A. Unscrew 2pcs BM2*10(A) to take off Cover SW
- B. Unscrew 2pcs M2.6*18(B) to take off Adjust foot A



Chapter 4 Service mode and Calibration

Service mode & Calibration

4-1 Service mode (hidden from end users) for Service Repair Center only

I) Press button sequentially: POWER \rightarrow AUTO \rightarrow MENU (Please press as quickly as possible after start-up logo disappears.)



Service mode & Calibration

- 2) You will see the image as below:
 - a. Page: Set Up 01

Set Up 01	Firmware Version												
System Inf	U63 V1_24 EIKI_ENG												
	Feb 8 2007 11:4	7.28											
	Temp01 Temp02	0023											
	Lamp Timer 000	0 26											
	Lamp Total Timer 000 GVer 01 05 PVer	0 26											
	PACT DI DE FACT												

b. Page: System Inf

Set Up 01	C& B Calibration	Sright > to Testing
System Inf	AVKeystone Default	s right > to Testing
	Gamma	0.3
	Panel Select	SONY XGA
	DriverBn GAMMA	Computer
	Lamp timer lesting	s right > to resting

A. Set Up 01												
A-1: Firmware Version: The firmware version which used at the												
	projector.											
A-2: Build Date	: Firmware build date											
A-3: Temp01	: Temperature of inlet ventilation area											
A-4: Temp02	: Temperature of projector lamp											
A-5: Lamp Timer	: Lamp operation hours. It will be reset after											
	execute Lamp Timer Reset function.											
A-6: Lamp Total Tir	mer: The total system operation hours which											
	can not be reset.											
A-7: GVer	: Gamma Version											
A-8: PVer	: PIC Version											

-		A-1	
Set	Δ_2	Firmware Version	
	A-2	U63 V1_24 EIKI_ENG	
Sy	A-3	Build Date	
	the Breithert	Feb 8 2007 11:47:28	
	A-4	Temp01 0023	
	A-5	Temp02 0022	
		Lamp Timer 0000 26	
	A-0	Lamp Total Timer 00000 26	
	A-7	GVer 01.05 PVer 00.08	
		A-8	

II) Service mode :

B. System Inf

B-1: C&B Calibration: Contrast and Brightness calibration

adjustment.

projector.

B-2: A V Keystone Default: Auto Vertical Keystone function reset

B-3: Lamp Timer reset: To reset lamp timer when replace new lamp.

B-4: Gamma : For EDI internal used only

B-5: Panel Select : Panel manufacturer

B-6: DriverBn Gamma : The current input signal source at projector

B-7: Lamp Timer Testing: For EDI internal testing purpose only.

PS: If you execute the" Lamp Timer Testing" function, the lamp timer will show "1999" operation hours and the alarm system will remind you to replace lamp.



C. Lamp Timer Reset:

Set Up 01	C& B Calibration	< right > to Testing
	AVKeystone Default	< right > to Testing
System Inf	Lamp Timer reset	<right> to Reseting</right>
	Gamma	0.8
	Panel Select	SONY XGA
	DriverBn GAMMA	Computer
	Lamp Timer Testing	< right > to Testing



- a. Select "Lamp Timer Reset"
- b. Press "right key "
- c. Confirmation information shows up as fig 4



fig 4

- d. Select "Yes "
- e. Press "right key "

- D) Auto Keystone Calibration
 - a. Make sure the surface where the projector is put is horizontal (no slope) as fig 5



fig 5

- b. Enter "Service mode" (Press button sequentially "POWER→ AUTO→MENU " on keypad)
- c. Select page "System Inf " as fig 6
- d. Select " AV Keystone Default "
- e. Press "right key "

ystone Default Timer reset a	<pre>< right > to Testing < right > to Reseting 0.8</pre>
Timer reset	< right > to Reseting 0.8
a	0.2
Select	SONY XGA
Bn GAMMA	Computer
Timer Testing	< right > to Testing
	Bn GAMMA Timer Testing

fig 6

Service mode & Calibration

E) Contrast and Brightness Calibration Model SVGA: select "SVGA EX17C&B".jpg fig 7



GA EXI

C&B

Model XGA: select "XGA EX17 C&B".jpg

a. Select pattern as fig 7

XGA EX17

C&B

Note :

b. Select OSD→ Picture→ Display mode→ Natural mode (as fig 8)



C& B Calibration

fig 8

Up 01

- c. Enter "Service mode" (Press "POWER→ AUTO→ MENU" on keypad)
- d. Select page "System Inf "
- e. Select "C & B Calibration " fig 9
- f. Press "right key "
- g. Confirmation information shows

up as fig 10

h. Press "right key "





Chapter 5 RS232 Command

- Connection :

- 1. Use RS-232C-to-PS2 cable (part number: 13660016)
- 2. Connect with RS232C port of projector



- If RS232 command doesn't work:

Please check

- The baud rate setting is 9600 or 19200
- Is the port you select correct? For example "com 1" or "com 2"
- Make sure you key in command, for example command "power on ":

Correct :	C00C	R (ASCII)) or 43 30 30 (DD (HEX)
incorrect :	C00	(ASCII)	or 43 30 30	(HEX)

EDI Projector RS232 Communication Format -

1. Communication Protocol

Standard Baud rate:	9600 bps or 19200 bps+
Data length:	8 bits ₽
Parity:	None₽
Stop bit:	1 bite
Flow Control:	None₽

2. RS232 Cable Define for EX31xx / EX-27xx Serial Projectorse

(PC side) (Projector side with D sub – pin) ↔

 $\begin{array}{ccc} RX & 2 & \longrightarrow & 2 & TX + \\ TX & 3 & \longrightarrow & 3 & RX + \\ GND & 5 & \longrightarrow & 5 & GND + \end{array}$

3. RS232 Cable Define for EX-17xx / Uxx Serial Projectors +

(PC side) (Projector side with Mini-Din 8 pin Plug) +

RX 2	\longrightarrow	5 TX₽
тх з	\longrightarrow	3 RX₽
GND 5	\longrightarrow	4, 8 GND+



4. Command Format (TYPE1:EX-17xx and Uxx serial, TYPE2:EX-31xx and EX27xx)+

↓ TYPE1 CODE:↓

Example: <u>Power ON</u> command is sent to the projector with a CR, the projector returns a "15" or "68D" code

Command (ASCII)₽

¢	ę	PC₽	ę	ę	C≁	0¢)	0 ∉⊃	CR↩	ę.	¢	¢	ц.	¢	÷	÷	÷	÷	¢	¢	÷
¢	ç	Projector₽	ę	ą	ę ę	1	2	¢	Processing.↓ Command.₽	ę	1₽	5 <i>-</i> 2	¢	¢	¢	¢	¢	¢	¢	47

TYPE2 CODE :+-

Command (ASCII)₽

¢,	¢	PC₽	¢	P ₽	₩↔	R≁	, 0 4	N₽	Сь С	đ	¢	Ċ.	¢	¢	¢	¢	¢	ę	ę	÷
¢	¢	Projector₽	ę	Ъ.	÷.	, .	ς,	¢	Processing↓ Command₽	ę	6 0	8 <i>4</i>	D₽	¢	Ą	Ą	Ą	ę	ą	÷

RS232 command

5. Command Liste

TYPE1 Command (HEX+CR)	TYPE2 Command	Function.	Remarks ₄	4
EX-27xx / EX-17xx / Uxx 🖉	EX-31xx / EX-27xx			
C00(43 30 30 0D)₽	PWRON@	POWER ON@	4	+
C01(43 30 31 0D)+	PWROFF.	POWER OFF~	4	
C02(43 30 32 0D)₽	INRGB1+	COMPUTER1#	e.	
C04(43 30 34 0D)₽	INRGB2+	COMPUTER2+	e e	
C03(43 30 33 0D)	INYPBPR#	YPBPR₽	4	
C05(43 30 35 0D)₽	INDVI	DVI₽	EIKI disable@	
C05(43 30 35 0D)₽	₽.	COMPUTER1+	EIKI enable∂	
C06(43 30 36 0D)₽	INVIDEO.	VIDEO@	EIKI disable#	
C06(43 30 36 0D)₽	Ф.	S-VIDEO.	ElKI enable∂	
C07(43 30 37 0D)₽	INSVIDEO.	S-VIDEO@	EIKI disable#	
C07(43 30 37 0D)	÷	VIDEO ₽	ElKI enable₽	
C08(43 30 38 0D)+	INYCBCR#	COMPONENT	4	
C07(43 30 37 0D)	FUVOL+-	VOLUME +@	4	
C0A(43 30 40 0D)+	FUVOL-+2	VOLUME -	4	
C0D(43 30 43 0D)+	÷	V-Mute On∂	EIKI only≓	
C0E(43 30 44 0D)₽	4	V-Mute Off↩	EIKI only⊷	
C1D(43 31 44 0D)+	FUMENU~	MENU₽	4	
C30(43 33 30 0D)	FUUPe	UP₽	۵	
C31(43 33 31 0D)	FUDOWN₽	DOWN₽	4	
C32(43 33 32 0D)	FULEFT#	LEFT@	4	
C33(43 33 33 0D)+	FURIGHT#	RIGHTe	4	
C34(43 33 34 0D)₽	4	MUTE₽	сь. Сь.	
C43(43 34 33 0D)+	4	FREEZE₽	4	
C80(43 38 30 0D)+	4	IOOM+@	4	
C81(43 38 31 0D)+	ц.	IOOM-@	e.	
C89(43 38 39 0D)+	сь С	AUTO₽	EIKI only#	
C70(43 37 33 0D)+	сь С	ESC+2	4	
C91(43 39 31 0D)+	сь С	SOURCE	پ	
C92(43 39 32 0D)+	FUAUTO.₽	AUTO	4) (4)	
C73(43 37 33 0D)+	ته	CONTRAST+@	сь С	
C74(43 37 34 0D)	ت <u>ه</u>	CONTRAST-@	сь С	
C75(43 37 35 0D)+	ته	BRIGHTNESS+	ته ت	
C76(43 37 36 0D)₽	ته	BRIGHTNESS-	сь С	
C97(43 39 37 0D)	FUBLANK#	BLANK₽	сь С	
C78(43 37 38 0D)+	ته	KEYSTONE+@	<i>ت</i> ه	
C77(43 37 37 0D)+	ته	KEYSTONE-#	<i>ت</i> ه	
2	4J	¢.	с.	

RS232 command

CR0(43 52 30 0D)+	c ₽	POWER-STATUS~	<u>STATUS feedback</u> ↔
			"000" - projector is on≁
			"800" - projector is standby↔
			"200" - projector is cooling down↩
			"500" - projector is warm up#
CR1 (43 52 31 0D)	^ر ،	SOURCE-STATUS	<u>STATUS feedback</u> ↔
			"001" – COMPUTER1⊷
			"002" – DVI⊷
			"003" – COMPUTER2⊷
			"010" - VIDEO⊷
			"020" - S-VIDEO⊷
			"040" – COMPONENT⊷
			"004" - <u>YPbPr</u> ₽
CR2(43 53 32 0D)+	ل ه	TIMER-STATUS#	<u>STATUS feedback</u> ↔
			"xxxHrs xxxMins"- Lamp time hours
			(for EX-17 and Uxx only)⊷
			"HHHH" – Lamp time hours (for
			EX-27∞ only)≓

CodeType:	ype_1	Connect Pr	ort: COM	1
Power		Connect	[Disconnect
		Menu		
Projector Working Status		🛄 Menu		ESC
On / Off	lamp timer	✓ 7 VOL-	•	VØL+ / Þ
source		Function		
Source		<	🎇 Still	🌲 K+
🤣 Sequence Sele	ect 🔨 Video	Brightness-	📒 Blank	Brightness
🏠 RGB1 🏠 RG	B2 🔪 S_Video	Contrast-	AutoSync	Contrast+
🏊 DVI 🛛 🏠 YP	bPr 🌋 YCbCr	Q 200M-	🚫 MUTE	S ZOOM

- RS232 Remote_control Pad (software part number: 51760001)

- What if RS232 Remote_control Pad doesn't work?

Please check

- I Make sure the version is 5.1 or greater than 5.1.
- II Make sure the code type is <u>Type 1</u>
- III The baud rate setting is <u>9600 or 19200</u>
- IV Is the connect port you select correct? For example "com 1" or "com 2 "