

T430 and T440 included projector and LCD panel drivers in Code release V165, 31st July 2024

Setting T430/T440 systems to control a Projector or LCD device.

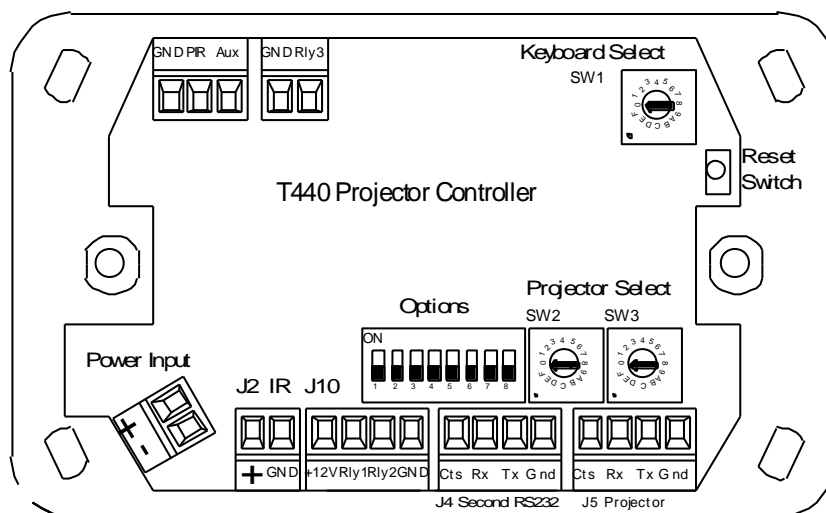
The default setting is for Projectors

Note: When a unit is re-loaded with a new firmware file, the unit is reset to a “PROJECTOR” setting.

- To set the T430/T440 for **projector** control, set DF on the rotary switches SW2 and SW3 and switch off all the option switches.
Push the Reset button and the green LED blinks for 2 seconds;
- To set the T430/T440 for **LCD** control, set DF on the rotary switches SW2 and SW3 and turn ON Option SW8 only.
Push the Reset button and the green LED blinks for 2 seconds

Setting the Device Code on a T440

The **T430/T440** can now have a Projector or LCD device code and any options set. The device code is set on the “Projector Select” rotary SW2 and SW3 as shown below. E.g for an Epson Projector **Code 0C**, set 0 on SW2 and C on SW3.



Further details on specific projector wiring and input source setting see the T430/T440 Projector Manual;

http://www.jedmicro.com.au/T430_T440_Release/T430_T440V138BP.pdf

and for LCD panels see;

http://www.jedmicro.com.au/T430_T440_Release/T430_T440V138BF.pdf

Acer

Code 70: DVI-I 9600 baud, **Code 71:** HDMI 9600 baud

Code 72: DVI-I 115200 baud, **Code 73:** HDMI 115200 baud

A: S5200, S5201/B, P5205, P5206, S5201/B, P5301/WB, P5270, P5271/i, P5290/W, P5390W, P7201, P7209, P7270i, P7280

B: P1100/C, P1200/i/B/C/n, P1201B, P1203, P1206, P1303

C: M114, M112

D: X1110, X1210, X1210S/K, X1213, D315, S21T, D302, X1111/H/A, X1211/H/S/K, X1213P/PH, X1311KW, X1313PW/PWH

E: X1161/A/N, X1261, X110, H5360, D110

F: P7200, P7203, P7205, P7500

G: X1130P/PS, X1120PK, X1230S/PK/PS, X1235, X1237

H: H7530, H7531

I: X1120, X1220H, X1320WH

J: H9500/BD

K: XD1170, DVI:XD1270, XD1280

Active2Touch: Code 74

AHA

LCD touchscreen, 55", 65", 70", 75", 84": **Code 9C**

BARCO G60

Code 16

Benq

BenQ LCD1: RP550+, RP551+, RP650+, RP651+, RP700+: **Code 4E**

BenQ LCD1: RP652 at 38400, Inc/Dec volume: **Code 03**.

BenQ RP6501 Different Standby command, at 9600: **Code 04**

BenQ LCD2: RP840G **Code 4F**

BenQ LCD 3: and Clevertouch, eBoard LCD: **Code 5E** at 9600 baud

BenQ proj: SH960 **Code 3D**

BenQ SP870(Rev 2.13) **Code 37**

BenQ SP820, Optoma Group 3: EP771, EP772, EP774 projectors (**Code 3B**)

BenQ MP724, MP727, MP735 (**Code 3E**)

BenQ MP512 MP513, MP522, MP626, MP623, MP624, MP670, MP772st, MP776st, MP777, MX750/MP780st, SP920, PW9500 (**Code 3F** allows HDMI for Computer: 2, **Code 4A** allows HDMI for Video 2 or 1, RGB2 for Computer:2)

MP551 **Code 4B**, MP525/MP525P/MP575, MP626/MP576 (No HDMI/RGB2), MP515ST/MP525ST (HDMI version) (**Code 4C**)

*MS614, MW714st / MW811st, MX615, MX660P, MX710 / MX711, MX713ST / MX810ST, MX762ST / MX812ST, MX763, MX764, MX760 / MX761, MX712UST / MX880UST, MX716/MX717 (**Code 7C** with Vid2->S-Video, **Code 7F** with Vid2->HDMI)

*SP840, W600, Th681 (2 x HDMI, allows HDMI1 for Video and HDMI2 for Computer, **Code 7D**)

Canon

LV-7575 **Code 02**

SX6000/WX6000, SX80 MkII / SX800, WUX10 Mk II (**Code 1C**)

WUX4000/WUX5000 (**Code 1D**)

Casio

XJ-A, XJ-M, XJ-UT310WN, XJ-V1, V2 series projectors LED/Laser, 1 xVGA RGB, 1 HDMI **Code 6D**

Includes XJ-A142/XJ-A147, XJ-A242/XJ-A247, XJ-A252/XJ-A257, XJ-M140/XJ-M145, XJ-M141/XJ-M247, M150/XJ-M155, XJ-M151/XJ-M156, XJ-M240/XJ-M245, XJ-M241/XJ-M246, XJ-M250/XJ-M255, XJ-M251/XJ-M256

XJ-H, XJ-ST has 2 VGA RGB ports **Code 6E**, Includes XJ-H1600, XJ-H1650, XJ-H1700, XJ-H1700, XJ-ST145, XJ-ST155

XJ-F, XJ-V, XJ-UT has 2 HDMI ports Code 6F Includes XJ-F10X/XJ-F20XN, XJ100W/XJF200WN, XJ-F210WN, XJ-V10X/XJ-V100W/XJ-V110W, XJ-UT311/331/351WN

CommBox LCD monitor with touchscreen interface

These screens are interfaced via an IR transmitter or a wired connection sending in an un-modulated pulse sequence identical to an IR transmission (but without the 38khz carrier) into a 3.5mm jack on the back (marked IR).

Code A2 Modulated IR to CommBox , requires an IR bug either sending IR from the front or via a hole in the rear.

Code A3 UnModulated IR-like pulses to CommBox via 3.5mm jack in back.

Code 8E V1CommBoxInteractive_RS232. *Code 88,89 V2*

Code 8A Commbox Meeting Room

Christie 115200 (Code 9E), 19200 (Code 9F)

DELL projectors **Code 4D**

Models covered are 1200MP, 1201MP, 1209S, 1409X, 1510X, 1609WX, 1610HD, 1800MP, 2400MP, 4100MP, 4210X, 4220, 4310X, 4320, 4610X, 5100MP, 7609WU, S300/W/WI, S500wi.

Eiki projector

(see also Sanyo)

LC-WIP3000, LC-WSP3000 XDP-3500, XIP-2610, XSP-2600, **Code 81**

LC-XIP2000, LC-XIP-2600, LC-XNP4000 **Code 84**

Englaon TV (limited via code E) as Code \$AE

Epson VP21 projectors

Codes 0C, 0D

Typical models are: EB-84/H/He/L/+, EB-85/H/HV/+, EB92, EB93e, EB95, EB96W, EB-97, EB-98, EB-400, EB-410W, EB-420, EB-425W, EB-430, EB-435W, EB-440W, EB-450W/e/i, EB-455Wi, EB-460e/i, EB-465i, EB-470, EB-475W/Wi, EB-480/i, EB-485W/Wi, EB-520, EB-525W, EB-530, EB-535W, EB-536Wi, EB-570,

EB-575W/I, EB-580, EB-585W/I, EB-590Wt, EB-595WiEB-824/H,
EB-825/H/HV/+, EB-826/WH/WHV/W+, EB-900, EB-905, EB-910W, EB-915W, EB-925, EB-940, EB-945, EB-
950W, EB-955W, EB-965, EB-1400Wi, EB-1410Wi, EB-1830, EB-1840W, EB-1850W, EB-1860, EB-1870, EB-
1880, EB-1900, EB-1910, EB-1915, EB-1920W, EB-1925W, EB-1925W, EB-1930, EB-1935, EB-1940W, EB-
1945W, EB-1950, EB-1954/W, EB-1955, EB-1960, EB-1964, EB-1965, EB-1970W, EB-1975W, EB-1980WU, EB-
1985WU, EB-4550, EB-4650, EB-4750W,
EB-4850WU, EB-4855WU, EB-4950WU, EB-4955WU, EB-S11, EB-S11H, EB-S12, EB-W17,
EB-W28, EB-X11, EB-X11H, EB-X14H, EB-X15, EB-X17, EB-X20, EB-S17, EB-S21, EB-X21,
EB-W22, EB-X22, EB-X25,
EMP 30/52/53/54/61/73/74/81/62/82, EMP-83(83e),
EMP-83H(83+/83He/83V+), EMP-260/280/400W/600/800/810/811/820/821,
EMP-822(822H(822+), EMP-828/830/835
EMP-6000/6010/6100/6110/1810/1815/1825/7800/7850/7900/7950/8300/9300/S1/S1H,
EMP-G5350/G5300/G5200W/G5150/G5100/G5000, EMP-84/85/824/825/826W

Code 0E: Code to send Source Roll

Code 75 : Special Computer Codes: Epson Home series,
EH-TW2900/3200/3500/3600/4400/4500/5500, TW5900, TW6000/W, TW8000/W, TW9000/W

Code 76 : Special Composite Video Code:

Epson EB-G5450, EB-G5500, EB-G5600, EB-G5650, EB-G5600W, EB-G5750WU, EB-G5800, EB-G5900, EB-
G5950, EB-G5550

Code 77 : Special Composite Video Code and HDMI Codes:

Epson EB-Z Generic: EB-Z8000W, EB-Z8050WU, EB-Z8150, EB-Z8250, EB-Z8350W,
EB-Z8355W, EB-Z8450WU, EB-Z8455WU, EB-Z9750WU, EB-Z9800, EB-Z9805W, EB-Z9810, EB-Z9850W, EB-
Z9900, EB-Z10000, EB-Z10005

Epson S/W/X5/6/7/8/9/10/11/12/13/14 (etc) IR controlled projectors

Code A0: EMP-S5(S5+/S52/T5), EMP-X5(77c/X52/X5e/X5E), EMP-X56(EX90/X68):

Code A1: EB-S6(S6+/S62/EX30/EX31), EB-X6(72/X62/X6e/EX50)

Code A2: EB-92, EB-1750, EB-1760, EB-1760W(C260MN), EB-1770W(C300MN/C3010N),
EB-1775W(C300MS)

EB-S7(S72)/W7/X7(79/X72), EB-S8(EX31/S8+/S82), EB-S9(VS200/S92/C250S),
EB-S10(EX3200/S10+/C260S)

EB-W6(W6+/EX70/HC700), EB-W9(C250W), EB-W10(EX7200/1260/W10+/C260W)

EB-X8(E51/X8e)/W8(EX71/W8+), EB-X9(X92/C250X/C250XS/C250XC),
EB-X10(EX5200/1220/X10+/C260X/C260XS),

EB-W12(EX7210/1261W/W12+/C55W), EB-X12(EX5210/1221/C30X),
EB-W02(VS315W/W110/C50W), EB-X02(VS310/C20X),
EB-S02(VS210/C05S/S110), EB-S01/EH-TW480(HC710HD/TW490C)

EH-TW420, EH-TW450(HC705HD)

Code A3: EB-S03+/W03/X03, EB-W15/+, EB-S17/W17/X17, EB-W18/+, EB-S18/X18/, EB-X24

Code A4: This same group, with absolute power On and Off IR commands

HDi32 (code 76)at 9600 baud & HDi70 Panel, "23" (Code 73) at 115200 baud

Hisense RC5-code LCD TV via IR Code AC

24F33

Hitachi projectors

Code 44 , single audio control, **Code 45**, “by channel” audio

Following have **no audio** so can use either *Code*: PJ-TX100, TX200, TX300, CP-X10000, CP-WX11000, CP-SX12000

Code 44 is used when there is an audio in for typically each RGB channel but one audio shared by all video inputs. There is only one pair of commands for audio Inc/Dec and the level of all channels is controlled by this one pair of commands. So if a level has been dropped for a RGB channel, the audio level is down for the Video input and needs to be manually adjusted up. These are typically many older models (excluding 3-byte *Code*: CP-X935 to X970.)

Also supported by *Code 44* are: 3M-MP8746/MP8747/MP8775, 3M-X45, 3M-X55, 3M-X75, 3M-X70, 3M-X80, ELMO EDP-S10, VIEWSONIC PJ510/PJ853/PJ656/PJ552/PJ562/PJ750/PJ862/PJ1165/PJ1172/PJ1065, also InfocusLP800 (Hitachi PJ-TX10 does have *Code 44* audio.)

Typical Code 45 models are: CP-A52, CP-A100, CP-A200/N, CP-A200, CP-A220N, CP-A300NM,

CP-AW250N/M, CP-AW2503, CP-AW3003,

CP-AX2503, CP-AX3003, CP-AX3503,

CP-CW250WN, CP-CW300WN, CP-CX250, CP-CX300WN

CP-D10, CP-DW10N, CP-D20, CP-D27, CP-D32WN, CP-DW10N, CP-DW25WN,

CP-EW250N, CP-EW300N, CP-EX250N, CP-EX300N,

CP-SX12000, CP-SX635, CP-SX8350,

CP-TW2503, CP-TW3003,

CP-WU8440, CP-WU8450, CP-WUX645N, CP-WU8460J,

CP-WX8, CP-WX3530WN, CP-WX8240, CP-WX8255, CP-WX11000, CP-WX3011N, CP-WX3014WN,

CP-WX4021N, CP-WX625, CP-WX2515WN, CP-WX3014WN, CP-WX3015WN, CP-WX4022WN, CP-WX8240, CP-WX8255, CP-WX8265J,

CP-X2, CP-X4, CP-X6, CP-X8, CP-X9, CP-X200, CP-X201, CP-X205, CP-X206, CP-X251, CP-X253, CP-X245, CP-X255, CP-X256, CP-X260, CP-X265, CP-X268, CP-X300, CP-X301, CP-X305, CP-X306, CP-X308, CP-X400, CP-X401, CP-X417, CP-X450, CP-X505, CP-X600, CP-X605, CP-X608, CP-X615, CP-SX635, CP-X705W, CP-X809, CP-X2010, CP-X2011/N, CP-X2012WN, CP-X2015WN, CP-X2020, CP-X2510, CP-X2511/N, CP-X2514WN, CP-X2515WN, CP-X2520, CP-X2521WN, CP-X3010, CP-X3011/N, CP-X3014WN, CP-X3015WN, CP-X3020, CP-X3511, CP-X4011/N, CP-X4014WN, CP-X4015WN, CP-X4020/E, CP-X4021N, CP-X4022WN, CP-X4030WN, CP-X5021N, CP-X5022WN, CP-X8150, CP-X8160, CP-X8170J, CP-X10000,

ED-A100, ED-A101, ED-A110 (A1DN), ED-A111, ED-A220NM, ED-AW100N, ED-AW110N, ED-D10N, ED-D11N, ED-X10, ED-X12, ED-X15, ED-X22, ED-X50, ED-X52, iPJ-A250NM

ViewSonic

PJ759/PJ758/PJ760, PJ1158 **Code 46**

3M

-X64, 3M-X66, 3M-X76, 3M-X90 **Code 46** , at 115200 baud

CP-DH300

HP

vp6320/6321/6325, xp8010/8020 **Code 48**, ep7120/7122 **Code 49**

Hitachi

LCD HITFHD6516/PC, HILF75101 LED interactive **Code 9C** or **Code 3C**

LCD Hitachi DSxxMU01 **Code 3D**;

HILS65205 **Code 09**

iizEL

flat panel monitor/TV, ZWP-42/47/52

Full HD Digital tuner **Code 7C** or analog tuner **Code 7D**

IT LCD

InFocus projectors

IN11x, IN12x, IN12xST, IN212x (eg IN126) **Code 1F** at 9600 baud

IN2100 series: IN2102/EP, IN2104/EP and IN2106/EP, IN2112, IN2114, IN2116, A1100, A1200/EP, A1300, IN25, IN27/W, C212 and C214. **Code 58** also some ASK/Proxima at 19200 baud

IN3100 series: IN3102, IN3104, IN3106, IN3108, IN3114, IN3116, IN3182, IN3184, IN3186, IN3188, A3100, A3180, A3200, A3280, A3300 and A3380. **Code 58** also some ASK/Proxima at 19200 baud

LP*** models

LP540, LP640, LP600, LP815, LP820, LP840, LP850, LP860 **Code 59**

LP650 ... **Code 5A**

LP500, LP530 ... **Code 5B**

LP790 ... **Code 6A**

LG LCD/Plasma display/TV

Code 90, 91, 93, 94 & 97, 98, 99 and 9A

Group 1 **Code 90**

PC to "kb 00 0" for PLASMA monitor: MU-40PA15*, 42/50PM1M**, 42PM3MV**, MU-60PZ30***, MU-0PZ40***, MU-42/50PZ41V**, MU-42/50PZ44***, MU-42/50/60PZ90***

Group 2 **Code 91** for Plasma Monitor/Digital TV:

PC to kb **Code 5 for PLASMA:** MU-50PM10, MU-42PM11, MU-42PM12*, RU-42/50PX10, RU-42/50PX11, RU-42/50PX/20, MW-71PY10*, MW-71PY10**, RT-42/50PZ60/70***, R4U-42/50/60PZ61/71, MU-60PZ95*

Group 3 **Code 93** for Digital TV (or Monitor only), **Code 94** for Analog TV:

PC to "kb 00 7" for LCD/PLASMA TV: 42LC2DR, 32/37/42LC7D*, PLASMA: 50PB2DR, 42/50/60PB4D, 42/50PC1***, 42/50PC5D*, 42/50/60PM4M/MA, 50PX1D***, 50PX2DC**, 42PX3D****, 42/50PX4D***, 42PX5D***, 50PX4DR, DU-50PX10*, DU-42PX12X*, *, 50/60PY2DR*, DU-42/50PZ60***, DU-42/50PZ70***

"xb" family input select Codes

Note re Plasma TV models 42/50PQ10, 42/50PQ11**, 42/50PQ20**, 42/50PQ30**, 42/50PQ31, 42/50PQ60**, 50PS30**, 60PS40**, 50PS60** ...** We have two manuals for these, one showing them as 'xb 00 50', i.e. Group 4 below, and showing them as 'xb 00 60', i.e. group 5 below. We suggest trying both drivers for one that works to select RGB.

Group 4: Codes 97 and 98: (first column in table below) uses Code 'xb 00 50' + 0D for RGB/VGA PC input used as "Computer1". LCD: 32/42/47/52LB9D**, 26/32/37/42LG3***, 32/42/47LG5***, 32/42/47/52LG6**, 42/47/52LG7***

PLASMA: 42/50PQ2***, 42/50PQ6***, 50PS3***, 60PS4***, 60PS6***, 42/50PB4D*, 50/60PY3D**

Group 5: Codes 99 and 9A: (second column in table below) uses Code 'xb 00 60' + 0D for RGB/VGA PC input used as "Computer1". Typical models are: LCD: 32CL20, 32/42/47CL40, 42/47LB7RF*, 32/42/47/52LB9R*, 26LC2R*, 26/27/32/37/42LC2***, 32/37/42LC2D, 32LC25R*, 26/32LC3R*, 26/32/37/42LC4R*, 26/32/37/42LC7R*, 19/22/26/32LD3**, 32/37/42/47LD4**, 42/47/55LD5**, 32/37/42/47/55LD6***, 32/37/42LE2***, 32LE3*** 32/42/47/55LE4***, 22/26/32/37/42/47/55LE5***, 22/26LE6***, 32/37/42/47/55LE7***, 42/47/55LE8***,

32/37/42/47LF11, 47LF21, 32/37/42LF25**, 32/42/47LF51**, 22/26/32/37/42/47LG1***, 32/37/42LG2***, 19/22//26/32/37/42LG2***, 19/22/26/32/37/42/47LG3, 26/32LG40, 32/37/42/47/52LG5***, 32/37/42/47/52LG60, 32/42/47/52LG70, 47LG90, 42/47LGX, 22/26/32/37/42LH2***, 19/22/26/32/37/42/52LH2***, 32/37/42/47LH3***, 32/37/42/47LH30**, 42/47LH300C, 32/37/42LH35FD, 32/37/42/47/55LH4***, 32/37/42/47/55LH5***, 32/37/42/47LH70**, 47/55LH8***, 42/47/55LH9***, 22/26/32LK3**, 32/37/42/47LK4**, 42/47/55LK5**, 32/39/42/47/55/60LN541C, 32/39/42/47/55/60LN549E, 32/42LP560M, 19/22LS4D*, 19/22LU40**, 19/22/26LU5***, 19/22/26/32LV25**, 26/32/37/42/47/55LV3***, 32/42/47/55LV3***, 32/42/47/55LW45**, 19/22/26/32LV25, 26/32LV30**, 32/42LV33**, 32/37/42/47/55LV35**, 22/26/32/37/42/47/55LV55**, 32/42LV34**, 32/42/47/55LW45**, 42/47LW54**, 42/47LW57**, 42/47/55LW65**, 47/55LW77**, 47/55LW95**, 47/55LW98**, 72LW99**, 32LX2R*, 42/47/55LX6***, 47/55LX9***, 22/29/32/39/42/47/55/60/65LY340C, 42/47/55/65LY540S, 42/47/55LZ96**, 60PC4R*, 32/37/42/47/55SL8***, 42/47SL9***, 42/47/55/60WL30MS, M197WD, M227WD, M237WD, M2901S, M3204C, M3801S, M4212C, M4712C.

PLASMA: 42/50PA45**, 42/50PA49**, 50/60PA65**, 42PC1***, 42PC1RV*, 42/50PC3***, 42PC3D, 42PC3DV, 50PC3D, 42PC3R*, 60PC4R*, 32PC5DVC, 42PC5RV*, 32/42/50PC5***, 42PC7R*, 42/50PG1***, 42/50PG10**, 42/50PG2***, 42/50PG20**, 42/50PG25, 42/50/60PG30**, 50/60PG60, 42/50PJ250, 42/50PJ3**, 42/50PJ550, 42PJ650, 50/60PK2**, 50PK3**, 50/60PK5**, 50/60PK7***, 50/60PK9***, 42/50PM1/3M**, 42/50PQ10, 42/50PQ20, 42/50PQ30**, 42/50PQ31, 42/50PQ35**, 42/50PQ60**, 42PQ65**, 50/60PS10, 42/50PS20**, 50PS30**, 50/60PS60**, 50PS65**, 50/60PS70**, 50/60PS80**, 42/50PT25**, 42/50PT35**, 50/60PV25**, 42/50PW35**, 42/50PW45**, 50/60PX9***, 60PY3RF*, 50/60PZ55**, 50/60PZ57**, 50/60PZ2**, 50/60PZ57**, 50/60PZ95**.

LG UN731 via IR

LVP605 Custom V161 for Vision One Code 13 flat panel

Mitsubishi

projector families: Codes 23 to 2A

Code 23 LED/LASER: NW30U, NW31U/EST, NF32U: short warmup-closedown, fast channel change, 0->21 volume.

Some model types for Code 24 , 00-21 range:

EX10U, EX53U/E, ES-EX100U, FD630U/G, FD730U/G, HC100, SD220U, S/XD221, S/XD420U, S/XD430U, HC900/E, UD740U, WD380U-EST, WD385U-EST, WD390U/EST, WD500U-ST, WD510U, WD510U-G, WD570U, WD720U, WD2000, WL639U, XD250U, XD250XD, XD280U, XD360U-EST, XD365U-EST, WD380U/EST, WD385U/EST, XD435U, XD400U, XD450U, XD460U, XD470U, XD480U, XD490U, XD500, XD510U, XD520U, XD530U/E, XD550U, XD560U, WD570U, XD700U, XD2000U, XL6U.

Some model types for Code 25 , 00-31 range:

FL6900, FL7000U, HD8000, MH2850U, UL7400, WL2560U, WL7050U, WL7200U, WL6700U/LU, S/XL4U, XL5U, SL6U, XL8U, XL9U, S/XL25U, XL30U, X200E, S/XD200U, XD300U, XD350U, X390U, X400U, SX490U, X500U, XL550U, XD550U, XD650U, XL650U, XL1550U, XL2550U, XL5900U, XL5950U, XL5980U/LU, XL6500U/LU, XL6600U/LU, XL7100 **InFocus** LP1200

Some model types for Code 26 , 00-60 range: S/XL1U, S/XL2U, S/X50U, SA51U, X70/U, X80U

Some model types for **Code 27** , 00-100 range: SD105U, S/XD206U:

Some model types for **Code 28** , no audio or inc/dec *3 audio only range:

If there is no "Volume commands" paragraph (or no audio in the projector), use the incremental control driver selection, **Code 28** .

No audio: HC1100, HC1500, HC1600, HC3000, HC3100, HC3800, HC4900, HC5000, HC5500, HC6000, HC6500, HC6800, HC7000, HD1000, HD4000, UD8400U, WD8200U/LU

Inc/dec audio: X100E, S/X120E, S/X250U, S290U, X300U

Some model types for **Code 2A** , inc/dec by 1's:

EW330U/ST, EW331U/ST, EX241U, EX320U/ST, EX321U/ST (projector audio range is 0->10) no absolute volume)M

itsubishi BenQ-style protocol: ES200U, EX200U, EW230U, EW270U, EX240U **Code 2B**

Mitsubishi LCD: LDT321V, LDT323V, LDT422V, LDT461V2, MDT521S, MTD651S, MTD652S: **Code 48** (MDT321S , LDT462V, LDT551V see NEC Multeos below) -

NEC

NEC NLT-40/46FHD100, Sherwood LF-401-TB5 TV/LCD panel **Codes 1C and 1D**, (Made by "indtek" in Korea as LC-401EB3 and LC-461EB3, also sold by Grundig.)

NEC LCD: **Code 60** 3000/3210/4000/4010/4020/4610/4620/5220/5710/6520P/L, SC40/SC46, M40/M46 Old T1, Old T2

NEC Plasma: **Code 60** 42XC10/42XP10, 50XC10/50XP10, 60XC10/60XP10

NEC LCD: (**Code 64** HDMI 1, **Code 65** HDMI 2), Mit **Code 66**

NEC LCD: (**Code 64** HDMI 1, **Code 65** HDMI 2), Mit **Code 66**

Multeos and Multisync models LCD3210, LCD3215, LCD4215, LCD4615, LCD5710, LCD8205, MDT652S, M401/M461/M521, P401, P402, P461, P462, P521, P552, P553, P701, P702, P703, S401, S461, S521, V321, V322, V422, V423, V461, V462, V463, X464UN/UNV, V551, V552, V651, V652, V3212, V801, X431BT, X461HB, X461S, X461UN, X463UN, X551S, X551UN, X554UN/UNS

Mitsubishi MDT321S (no HDMI)

Mitsubishi LCD: LDT462V, LDT551V, MDT652S **Code 66** has HDMI as Video 2

NEC LCD E-Series: **Code 67** (absolute audio) **Code 67** (incremental audio)

E324, E424, E464, E554, E654

NEC Plasma PX-42/50/60/61, VM/VP/VR/XM/XR, 2/3/4/5/6 (**Code: 14**)

NEC projector families: 38,400 baud, **Code 10, 13, 14, 15**

NEC 38400 baud, no audio: **Code 10** HT1000, HT1100 (fixed 38400), LT25/LT30/LT35, NP40/NP50/NP60, NP41/NP51/NP61/NP62, NP43/NP54/NP63/NP64, NP110/NP115/NP210/NP215.

Different Component *Code*: HT410/HT510, LT180, LT75Z, PH1000U, PX700W, PX750U, PX800X, V230, V230X, V260, VT37, VT46/VT460/VT465/VT560/VT660, VT47/VT470/VT570/VT575/VT670/VT676, VT48/VT57/VT58

NEC 38400 baud, with audio (0-62): **Code 10** GT950, GT1150/GT2150, GT5000/GT6000(fixed 38400),

LT85/LT150, LT154/LT155/LT156, LT157/LT158, LT280/LT380,

MT840/MT1040/G/MT1045/G(fixed 38400), MT850/MT1050/MT1055, MT1056, MT860/MT1060/MT1065/MT1075,

NP901W/NP905, NP1000/NP2000, NP1150/NP2150/NP3150/NP3151W, NP1250/NP2250/NP3250, NP4000/NP4001, NP4100/W, V260W, V260X, V300X, V300W, VT440/VT540 (fixed 38400), VT770, VT800

NEC 38400 baud, with audio (0-31): Code 13 LT220/LT240/LT260, LT245/LT265, M230X/M260W/M260X/M300W, M271W/X, M311W/X, M361X, M300W, M300X, M350X, MW420X, MW420XV, NP216, P350W/X, P401W, P420, P451W, P451X, P501X, PA500U, PA500X, PA550W, PA600X, PE401H, U250X, U260W, U300X, U310W, UM280/330X UM280W/X, UM330W/X, V281W, V311W, V311X, VE280/X, VE281/X, VE282/X, WT600, WT610/WT615

NEC 38400 baud, with audio (0-31): Code 14 PA521U, PA522U, PA571W, PA572W, PA621U/X, PA622U/X, PA671W, PA672W, PA721X, PA722X.

(This group has a 5xBNC connector panel where RGB (2), Composite Video and Y/C video all share one connector group. If Composite video or Y/C (S-video) uses these, you lose RGB usage. Use *Code 15* (next) to replace Computer 2 with new *Code* for HDMI2.) **Code 14/15** uses new HDMI 1 *Code* for Video 2.

PX602UL-WH, -BK, -WL, -BK have BNC as Computer 2, but only one HDMI (new *Code*)

NEC 38400 baud, with audio (0-31): Code 15 M282X, M302WS, M322W/X, M332X/XS, M352WS, M362W/X, M402W/X., NP-PA803U, NP-PA723U, NP-PA653U, NP-PA853W, NP-PA703W, NP-PA903X (This group has no RGB (2), so use *Code 15* to replace Computer 2 with new *Code* for HDMI2.) **Code 14/15** uses new HDMI 1 *Code* for Video 2.

NEC projector families: 19,200 baud, Code 11

NEC 19200 baud, with audio (0-62): NP300/NP305/NP310/NP405/NP410/W/NP510/W/WS/NP610/S, NP400/NP500/W/NP600, NP1200, NP2200, NP3200

VT45, VT49/VT59/VT490/VT590, VT480/VT580, VT595/VT695/VT700, VT650

NEC projector via IR Code AE hex

Suits most projectors.

Canon 19200 baud, (audio status unknown)

LV-7240/LV-7245/LV-X5, LV-7250/LV-X6, LV-7255, LV-7260/LV-7265/LV-X7

NEC projector families: 9,600 baud **Code 12**

NEC 9600 (fixed) baud, no audio: LT84/LT140

9600, **Code 12** is also useful for long-line communications to above projectors with alterable baud rates.

For models that don't control audio via RS232: use a T441/461 instead.

Optoma

Optoma Group 1: Code 99, Vol: 0->15 DS309, EP721 / EP723 / EP727 / EP728, EW1610

Optoma Group 2a: Code 98 , Vol: 0->10 (0/1 cmds, no DVI/HDMI) EH300, DH1011, HD25/LV, EH501, W501, X501, EH505, W505, EW605ST, EX605ST, EW610ST, EX610ST, TW610ST, TX610ST, EX850, EW860, EX865, EW635, EX635, TW635, TX635, EX400, W290, W316, No audio: PRO8000, EH7500, TH7500, EH7700.

Optoma Group 2b: Code 90 , Vol: 0->10 (0/1/2 cmds, HDMI)

PRO150S, PRO250X, EX540, TX540, EX542, TX542, EX615, TX615, EX762, TX762, EX612, TX612, DX319, DS216, DS219, DS316, ES526, EX531, EX536, DS317, DS323, TS526, TX536, C222, ES520, EX520, ES530, EX530, DX617, ES522, EX532, DX623, EP776, EP782W, TX778W, EX779, TX779, EW775, TW775, EX785, TX785, TW6000, TX7000, EH500, X600, W305ST, X305ST, W306ST, X306ST, FW5200, FX5200, S303, W303, X303, S2010, X2010, S2015, W2015, X2015, W401, X401, ZW201ST, ZX_201ST, ZW212ST, ZX212ST

Optoma Group 2c: Code 91 , Vol: 0->15 (1/2 cmds, DVI) EP752, EP761, EP763, EP783/TX783, EP1080/TX1080.

Optoma Group 2d: Code 93 , Vol: 0->16 (1/2 cmds HDMI, DVD) EP783, EP783/TX783, TX783

Optoma Group 2e: Code 92 , Vol: 0->20 (0/1 cmds, HDMI) DS327, DX327, DS329, DS550, DX550, ES550, EX550, DS551, DX551, ES551, EX551, TS551, TX551, EX565UT, TX565UT, 565UT, EX665UST, TX665UST, EX665UT, EW675UT, TW675UT, EX685UT, EW695UTi, W307USTi, X307USTi, EW766W, TW766W, EX765W, TX765W

Optoma Group 2f: Code 9A , ZU720T 0-100 vol, VGA, HDMI1, HDMI2, HDBaseT.

Optoma Group 3a *: Code 94 , Vol: 0->10 Note: If DVI-A is not used as Computer 2 use **Code 90** (2b above) (1/2 cmds, DVI-A on 2) DS327/DX327, DS329/DX329, ES550, EX550, ES551, EX551, EW674, EX772, EX774, HD75, TXR774, TWR1693

Optoma Group 3b *: (1/2 cmds, DVI-A on 2) DX609, EP721, EP723, EP727, EP728, EX525ST, HD71 (Code 95 , Vol: 0->15) Note: If DVI-A is not used as Computer 2 use **Code 91** (2c above)

Optoma Group 4a **: DH1015, DS318, EW536, EW631, EH1020, EH1060, EH2060, EX542i, EW762/EX762, EX784, FW5200, GT360, GT700, GT720, HD66, HD600X, PRO350W, TH1020, TH1060, TW536 (Code 96 , Vol: 0->10) Note: If HDMI is not used as Computer 2 use **Code 90** (2b above)

Optoma Group 4b **: GT750, EHD87, HD33, HD3300, HD82LV, HD82, HD8200, HD83, HD8300, HD86, HD87, HD8600 (Code 97 , no audio)

(**Optoma Group 5**: See BenQ SP820 for EP771/EP772 projectors **Code 3B**)

Optoma Group 6: HD803/ HD803LV **Code 0F**

Optoma Group 7: EP706, EP708S, EP709, EP712E, EP719H **Code 0B**

Panasonic

Panasonic LCD panels: Codes 56, 57 Vol 0->100

Units with "AV1" available Code 56 :

TH-42LF6U, TH-47LF6U, TH-55LF6U, TH-42LF30U, TH-47LF30U, TH-70LF50W, TH-80LF50W, TH-42LF60U, TH-47LF60U, TH-55LF60U, TH-42LFP30, TH-47LFP30

Units with "AV1" un-available Code 57 :

TH-42LF5U, TH-47LF5U, TH-42LFE6E, TH-50LFE6E, TH-47LFT30, TH-47LFX6J

Panasonic Plasma panels: **Codes 50 ... 53**

Units with "IIS" commands (**Code 50**)

Units with "IMS" commands (**Code 51**) early group TH-nnPx3/4/5, TH-61PHW6

Units with slot commands (**Code 52**) TH-nnPx6/7/8/9/10/11/12, TH-nnVX100

Units with slot commands (**Code 53**) TH-nnPx20

Panasonic projectors (Codes 30 to 36)

(for PT-CW230 / CX200 Series see Sanyo Code 80)

Code 30 : (Group 1): OSH mute/IIS:HD1 unmute, abs audio, 9600 comms:

PT-L501/701, L502/702, L511/711/712, PT-L735, PT-F200, PT-LB50/51/55/60, PT-LB280, PT-LB300, PT-LB330, PT-LB360, PT-LC55/56/75/76/80, PT-LW280, PT-LW330, PT-LX26HE, PT-LX30HE, PT-P1SDE, PT-LW25HE, PT-LX22E, PT-LX26E, PT-VX400E/VGA, PT-VX500E, and a lot more;

Code 33 : (Group 1a): OSH mute/OSH unmute, abs audio, 9600 comms: PT-AX200, PT-LB75, PT-LB78, PT-F200/F200NT, PT-F300, PT-FW300, PT-LP51.

Code 31 : (Group 2): OSH:1 mute/OSH:0 unmute, abs audio, 9600 comms:

PT-LB75NT, PT-LB80/NT, PT-F100/F100NT/FW100NT, PT-FX400/FW430, PT-LB1E/V, PT-LB2E/V, PT-LB3, PT-LB60U/NTU, PT-LB75/LB75NT, PT-LB78, PT-LB80/LB80NT, PT-LB90NTE, PT-LW25HU/HE/HEA, PT-LW80NT, PT-LX22U/E/EA, PT-LX26U/E/EA, PT-LX26HU/HE/HEA, PT-LX30HU/HE/HEA/PT-LZ370U/E/EA, PT-ST10E/U, PT-TW230U/E/EA, PT-TW231RU/R/REA, PT-TW240E, PT-TW330E, PT-TX300E, PT-XW23ST, PT-XW25SR, PT-X260, PT-UW250, PT-UX220, PT-UX260, PT-UX300, PT-VW330, PT-VW430E, PT-VW431DE, PT-VW440E, PT-VW435NU/NE/NEA, PT-VW530, PT-VW535N, PT-VX400/NT, PT-VW430, PT-VW431D, PT-VW435NE, PT-VX41, PT-VX45, PT-VX60, PT-VX405, PT-VX500, PT-VX510E, PT-VX505NU/NE/NEA, PT-VX600, PT-VX605N, PT-VZ570, PT-VZ575N, PT-X260, PT-X300.

Code 32 : (Group 3): OSH mute/ IIS:HD1 unmute, NO audio, 9600 comms: PT-AE900/AX100/AX200, PT-AE2000, PT-AE4000E, PT-AE7000U, PT-AE8000EH, PT-AT5000E, PT-AE6000E

Code 35 : (Group 4): As Group 2 but different Inputs 1&2, 9600 comms: PT-LX22, PT-LX26

Code 38 : (Group 5): OSH:1 mute/OSH:0 unmute, Inc audio, 19200 comms: PT-CW330, PT-CX300, PT-CW240, PT-CW331RE, PT-CX301, PT-CW241RE, PT-LW271, PT-LW321, PT-LX270, PT-LX271, PT-LX300, PT-LX321, PT-LX351, PT-TW330, PT-TX300, PT-TW240, PT-TW331RE, PT-TX301RE, PT-TW241RE

Code 39 : (Group 6): OSH mute/IIS:HD1 unmute, Inc audio, 19200 comms: PT-LW330, PT-LW280, PT-LB360, PT-LB330, PT-LB300, PT-LB280

Code 34 : (Group 7): Address mode, OSH:1 mute/OSH:0 un-mute, abs or no audio,

PT-D3500, PT-D4000, PT-D5000E, PT-D5500, PT-D5600, PT-D5700, PT-D6000E, PT-D7700, PT-D10000, PT-D12000, PT-DS12KE, PT-DS20K, PT-DS100XE, PT-DS8500U,

PT-DW11KE, PT-DW17K, PT-DW90XE, PT-DW100E, PT-DW530E, PT-DW640L/K/S, PT-DW730E/L/U/S, PT-DW740L/K/S, PT-DW830E, PT-DW5000, PT-DW5100, PT-DW6300E, PT-DW7000, PT-DW8300/U, PT-DW10000, PT-DX100E, PT-DX500E, PT-DX610L/K/S, PT-DX800E/L/U/S, PT-DX810L/K/S,

PT-DZ16KU/KE/KD, PT-DZ21K, DZ110XE, PT-DZ110XE, PT-DZ570E, PT-DZ680L/K/S, PT-DZ770L/K/S, PT-DZ870E, PT-DZ6700E, PT-DZ6710E, PT-DZ10KE, PT-DZ13KE, PT-DZ8700U, PT-DZ12000, PT-L785,

PT-EW530E, PT-EW540, PT-EW630E, PT-EW640/L, PT-EW730Z,

PT-EX12KE/U, PT-EX16K, PT-EX500E, PT-EX510, PT-EX600E, PT-EX610, PT-EX800Z,

PT-EZ570E, PT-EZ580, PT-EZ770Z, PT-RW330, PT-RW430, PT-RW630, PT-RZ370, PT-RZ470, PT-RZ475, PT-RZ670

PT-SLX12KC, PT-VW340Z, PT-VW345NZ, PT-VW435N,

PT-VX415NZ, PT-VX42Z, PT-VX410Z, PT-VX505N

Code 36 : (Group 8): Address mode, OSH:1 mute / ADZZ;IIS:HD1un-mute, abs or no audio,

PT-LZ370U (Code 31 may work with this too.)

Philips

Philips BDL series LCD (LED backlit) panels **Code 44, 45, 46, 47**

Code 44 (Non-addressed Protocol 1.6): Some models we know of matching this driver are:

BDL4230E/BDL4230ET, BDL4651VH, BDL4675XU, BDL4681XU, BDL4785SL, BDL5530EL, BDL5585XL, BDL6450AT, BDL6531E, BDL6551V

Code 45 (Non-addressed Protocol 2.0) for models BDL3245E, BDL4245E, BDL4645E, maybe BDL4231.

Code 46 (Addressed Protocol 1.86) for BDLxx20QL

Code 43 (Addressed Protocol 1.87) for (at least): BDL6520QL, BDL6526QT, BDL5588XH, BDL5588XL, BDL4677XH, BDL4678XL, BDL4776XL, BDL4777XL, BDL5586XL, BDL5588XH. Volume range is 0->100

Code 47 (Addressed Protocol 1.88) for (at least): BDL3230QL, BDL4330QL, BDL4830QL, BDL5530QL, BDL3260EL, BDL4260EL, BDL4660EL, BDL4765EL, BDL5560EL, BDL4280VL, BDL4680VL, BDL5580VL

Code 4C (Addressed Protocol 1.88, two volume)

Code 4D (Addressed Protocol 1.92, two volume)

Code 59 (Addressed Protocol 1.92, ext volume only)

Code 5F (Addressed protocol 2.03 set for Video Wall)

Philips SerialXpress series LCD (LED backlit) panels **Code 4A, 4B**

Pioneer

Pioneer Plasma panels **Code 80**

Some models we know of matching this driver are: PDP-42/50MXE10, PDP-42/50MXE11, PDP-42/50/60MXE20, PDP-43/50MXE1, PDP-425/525CMX, PDP-434/505CMX. All have same Codes.

Plus

Plus projector families: **U5, U7 (Codes 64 ... 67)**

Promethean

PRM-10, PRM-20: see Sanyo/Eiki **Code 86**

PRM-25, PRM-35: See Vivitek

PRM-30: see Sanyo/Eiki **Code 06**

Promethean ActivPanel Touch 2 APT70 LCD panel **Code 5C, 5D**

Ricoh

Ricoh: (Code 17) PJX3131, PJX3231, PJX3241, RGB1/2, Regulus STX/ETX group, Inc/Dec Vol, 9600

Ricoh: (Code 18) PJX3340, PJX4240, PJWX4240, RGB1/2, Altair, #/CR group, Vol 0->50, only at 115k

Ricoh: Code 19 PJWX4141, RGB1, Soleil, #/CR group, Vol 0->50, only at 115k

Ricoh: Code 1A PJWX5350N, PJX5360N, RGB1/2, #/CR group, Vol 0->50, at 9600 baud

Ricoh: Code 1B PJWX5361N, PJX5371N, RGB1, HDMI1/2, #/CR group, Vol 0->31, at 9600 baud

Samsung via RS232

LCD and Plasma panels: **Code 6C, 6D, 6E**

Plasma: 42": P42H(n), P42H-2, PS-42P3ST, SPD-42P3SM, PPM42S2, PPM42S3, PS-42P2ST,

50": P50H(n), P50FP, P50HP, PPM50H3, PS-50P2HT, PPM50H2, P50F(n), SPD-50P3HM,

63": P63F(n), P63FP(x), PPM63H3, SPD-63P3HM,

Various: PPMxxM5x, PPMxxM7x.

LCD: 23": 230MXn , 230TSn,

32": 320DX, 320MP(n), 320MX(n), 320P(N), 320PX , 323TSn,

40": 400CX(n), 400DX , 400DX(n), 400FP(n), 400FX(n), 400MP(n), 400MX(n), 400P(n), 400PX(n), 400TSn, 400TX(n), 400UX(n), 403T, CT40CS(N),

46": 460CX(n), 460DMn, 460DR(n), 460DX(n), 460FP(n), 460MP(n), 460MX(n), 460P(n), 460PX(n), 460Rn , 460TX(n), 460TS(n), 460UT(n), 460UX(n),

52": 520DX(n),

57": 570DX(n),

65": ME65B(n)

70": 700DX , 700DX(n), 700DRn, 700TSn

75": ME75B(n)

82": 820DX, 820DX(n), 820TSn.

LFD series: ME40A ME46A ME55A, DE40A DE46A DE55A, UE46A UE55A

LCD and Plasma panels: **Code 6F** Family with control codes starting with 68 hex.

Samsung LCD panels via IR control: (Codes A4 ... A7)

This is a generic driver, but codes are reputed to be universal.

Models tested at this stage: **UA 24/28/32 J4100AW**

Sanyo

LCD display/TV Code 0A

Sanyo LCD flat panel LCD42/47XR7

Sanyo, Eiki: Code 02 , absolute audio, **Code 03** , no or incremental audio

This is the default Eiki/Sanyo Code group and follows the master list coding..(Following are specials.)

Sanyo, Eiki: Code 04 , absolute audio

Sanyo: PLC-XC56, PLC-XU305, PLC-XU355, PLC-XW50, PLC-XW55, PLC-XW56, PLC-XW57,

Eiki: LC-HDT700 (no audio)

Sanyo, Eiki: Code 05 , absolute audio

Sanyo: PLC-XU105 **Eiki**: LC-XB42 (Note: Not LC-XB42N or LC-WB42N. For LC-XB42N use Code 02 above, for LC-WB42N see Code 06 below), LC-XB43

Sanyo, Eiki, Panasonic: Code 06 , absolute audio (0-63), **Code 83** , absolute audio (0-31) (**Code 80** uses **Code C04** for the HDMI Code.)

Code 06 , absolute audio (0-63) Sanyo (no HDMI, S-Video as Video2): PLC-XE32, PLC-XW60, PLC-XW65, PLC-WK2500, PLC-XK2200, PLC-XK2600, PLC-XK3010, PLC-XU4000,

Eiki: LC-SB21, LC-XB26, LC-XB21, LC-XB30, LC-XB100, LC-XB200, LC-XD25, LC-XBM21, LC-XBM26, LC-XBM31, LC-SB21, LC-XB26, LC-XB21, LC-XB30, LC-XB100, LC-XB200, LC-XD25, LC-XBM21, LC-XBM26, LC-XBM31

Code 83 , absolute audio (0-31) Sanyo: PLC-XW200, PLC-XW250, PLC-XW300, PLC-XD2200, PLC-XD2600, **Eiki:** LC-XBL21, LC-XBL26

Code 80 0->63 audio, (C04 HDMI as Video 2): (*Setting OPT6 switch to ON will use S-Video in place of HDMI Code C04 and OPT1 ON will then use HDMI as Video 1)

Sanyo: PDG-DWL2500, PLC-WL2500, PLC-WL2501, PLC-DXL2000, PLC-WXU300, PLC-WXU700 **Eiki:** LC-WB42N, LC-WB100 , LC-WB200, **Promethean:** PRM-30

Panasonic: PT-CW230 / CX200 Series

Sanyo, Eiki: Code 85 , no or incremental audio, Code 86 , absolute audio

Inc/no audio, Eiki: LC-SE10, LC-XE10

Absolute audio, Sanyo: PLC-WXE45, PLC-WXE46, PLC-WXL46, PLC-XL51

Eiki: LC-XB31, LC-XB33

Sanyo, Eiki: Code 87 , no or incremental audio, Code 88 , absolute audio

Sanyo, Eiki, Christie: Code 89 , no or incremental audio, Code 8A , absolute audio

Inc/no audio, Sanyo: PDG-DHT100L, PLC-XF47, PLC-XF70, PLC-XF71, PLC-XF1000, PLC-XR70, PLV-DH2000, PLV-WF20, WF20 **Eiki:** LC-X7, LC-X8, LC-XT5, EIP-HDT20, EIP-HDT30, LC-HDT1000, LC-HDT2000

Absolute audio, Sanyo: PLC-EF60, PLC-XF60, PLV-HD150, **Eiki:** PDG-DET100, LC-W5, LC-X6, LV-SX6, **Christie:** LS-PLUS58, LX66

Absolute audio, Sanyo: PLC-EF60, PLC-XF60, PLV-HD150, **Eiki:** LC-X6, LV-SX6, **Christie:** LS-PLUS58, LX66

Sanyo, Eiki: Code 8B , absolute audio 0-10

Sanyo: PDG-DSU30, PDG-DWL100, DXL100

Sanyo, Eiki: Code 8C , absolute audio 0-63, Code 8D , absolute audio 0-31

Absolute audio 0-63, Sanyo: PLC-WXU300, PLC-WXU700, PLC-XE32, PLC-XU300, PLC-XU350 **Eiki:** LC-XB100, LC-XB200, LC-XD25,

Absolute audio 0-31, set Code 8D : May be used if “CF Input” commands are needed to select S-Video

Sanyo, Eiki: Code 8E , NO AUDIO

Sanyo: PLV-1080HD, PLV-Z3, PLV-Z4, PLV-Z5, PLV-Z700, PLV-Z2000, PLV-Z3000

Sanyo, Eiki: Code 8F , Absolute audio 0-63

Sanyo: PLC-XU106 **Eiki:** LC-XB43

Sanyo projector PLC-WXU10N **Code 07**

Sharp, EIKI EIP projectors **Code 20, 21, 22** , absolute audio

Code 20: PG-D2500X, PG-D2510X, PG-D2710X, PG-D3010X, PG-D3510X, XR-50S, XR55X (VGA(1)/Vid/S-Vid) PG-F212X, PG-F262X, PG-F312X, PG-LS2000, PG-LX2000 **Eiki** EIP-250, EIP2600, (VGA (R1), HDMI/DVI (R2), (Vid V1, some S-Vid V1, Vid V2)

Code 21: PG-D2870W, PG-D3050W, PG-D3550W, PG-D40W3D, XG-SV100W, XG-SV200X (VGA R1/2, HDMI(R3), Vid(V1), S-Vid(V2))

Code 21: XG-P560W/N, Eiki EIP-WX5000, (VGA(R1), BNC(R2), DVI(R3), HDMI(R4),Vid, S-Vid) PG-D45X3D, PG-D50X3D (VGA (1), DVI-D/A (2), Vid(V1), S-Vid(V2))

Code 22: XVZ17000, XV-Z30000 (VGA(R1), RCA Comp(R2),Vid (V1),S-Vid (V2), HDM1/2 (R3/4))

Sharp

LCD display/TV, IAVD family **Codes 20 to 3E**

The Sharp LCD TV family use a wide range of allocations for channels, so we have *Coded* them in many groups with the first four "Inputs" (Computer 1 & 2, Video 1 & 2) customised, and shown below against the particular selection *Codes*.

Sharp LCD panel: **Code 20**

LC32BD6X, LC37BD6X, LC26D4U, LC32D4U, LC37D4U, LC26DA5U, LC32DA5U, LC26D6U, LC32D6U, LC37D6U, LC32AX5, LC26GA5X

If other HDMI, component, etc is needed for any of these, it is available by setting constants E0 ... E3 with selections from the generic table above. In the back of each panel's User's Manual are allocations of 'IAVD' *Codes* against physical inputs.

Sharp LCD panel: **Code 21**

LC40LE700UN, LC46LE700UN, LC52LE700UN, LC52SB55U, LCC5255U, LC40E67UN, LC40E77UN, LC60E77UN, LC65E77UM, LC42BD80U, LC46BD80U, LC52BD80U, LC46D85UN, LC52D85UN, LCC4677UN, LCC5277UN, LC46E77U, LC52E77U, LC42D65U, LC46D65U, LC52D65U, LC32D44E/S, LC32D65E, LC32DH65E/S, LC37D65E, LC37DH65E/S

Sharp LCD panel: **Code 22**

LC32D33X, LC37D33X, LC32D53X, LC37D53X, LC32A33X, LC37A33X, LC32A53X, LC32A53X, LC37A53X, LC42A53X, LC30AA1M, LC37AA+A171M, LC30HV2M, LC30HV4M, LC37HV4/U, LC32AW5X, LC37AW5X, LC32PD5X, LC37PD5X, LC42PD5X, LC32PX5X, LC37PX5X, LC42PX5X

Sharp LCD panel: **Code 23**

LC32D33X, LC37D33X, LC32D53X, LC37D53X, LC32A33X, LC37A33X, LC32A53X, LC32A53X, LC37A53X, LC42A53X, LC30AA1M, LC37AA+A171M, LC30HV2M, LC30HV4M, LC37HV4/U, LC32AW5X, LC37AW5X, LC32PD5X, LC37PD5X, LC42PD5X, LC32PX5X, LC37PX5X, LC42PX5X

Sharp LCD panel: **Code 24**

LC42D83X, LC46D83X, LC52D83X, LC65RX1X, LC46D84X, LC52D84X, LC37D85X, LC42D85X, LC46D85X/U, LC52D85X/U, LC37D63X, LC42D63X, LC46D63X, LC42A63X, LC32X20E/S, LC37X20E/S, LC42X20E/S, LC46X20E/S, LC52X20E/S, LC42D64U, LC46D64U, LC52D64U, LC65D64U, LC32GP3U/B/W/R, LC46SE94U, LC52SE94U, LC65SE94U, LC26AD5E/S, LC32AD5E/S.

Sharp LCD panel: **Code 25**

LC42D83X, LC46D83X, LC52D83X, LC65RX1X, LC46D84X, LC52D84X, LC37D85X, LC42D85X, LC46D85X/U, LC52D85X/U, LC37D63X, LC42D63X, LC46D63X, LC42A63X, LC32X20E/S, LC37X20E/S, LC42X20E/S, LC46X20E/S, LC52X20E/S, LC42D64U, LC46D64U, LC52D64U, LC65D64U, LC32GP3U/B/W/R, LC46SE94U, LC52SE94U, LC65SE94U, LC26AD5E/S, LC32AD5E/S.

Sharp LCD panel: **Code 26**

LC40BL700X, LC46LB700X, LC40LE700X/U, LC52LE700X/U,

Sharp LCD panel: **Code 2A**

LC26GA3X, LC26GA4X, LC32GA4X, LC37GA4X

Sharp LCD panel: **Code 2B**

LC45G1X, LC65G5XOM, TU45GAX, TU65GAX, LC32G1X, TU32GAX, LC37G1X, TU32GAX, LC32G2X, TU32GAX, LC37G2X, TU37GAX.

Sharp LCD panel: **Code 2C**

Panel types for this *Code*: LC37GB5U, LC57D90U, LC65D90U, LC26D7U, LC32D7U, LC37D7U, LC26D5U, LC32D5U, LC37D5U, LC26GD6U, LC32GD6U, LC37GD6U, LC45GD6U, LC45GD5U, LC26GD4U, LC32GD4U, LC37GD4U, LC45GD4U, LC26GA5U, LC32GA5U, LC32G4U, LC37G4U, LC37D90U, LC32D50U.

Sharp LCD panel: **Code 2D**

LC42GD7X, LC46GD7X, LC52GD7X, LC42GD7U, LC46GD7U, LC52GD7U, LC46G7X.

Sharp LCD panel: **Code 2E**

LB1085, LC46D92U, LC52D92U, LC65D93U

Sharp LCD display (no TV), LCM3700, Mitsubishi LDT651L, INPS family (**Codes 30 to 31**)

Sharp LCD panel LCM3700: **Code 30**

Mitsubishi panel LDT651L, LDT521V with Sharp LCD *Codes*: **Code 31** .

Mitsubishi panel LDT651P with Sharp LCD *Codes*: **Code 32**

Sharp LCD panel: via LAN **Code 3A**; PN60/70TA/B3, via LAN RS232 to LAN adaptor

Sharp LCD panel: **Code 34**; LC-40LE530X, LC-46LE530X, LC-60LE630X, LC-40LE700X

Sharp LCD panel: **Code 35**; LC-60LE632U, LC-70LE632U, LC-70LE732U

Sharp LCD panel: **Code 36**; LC-70LE735X, LC-40LE830X, LC-46LE830X, LC-52LE830X, LC-60LE632X, LC-40LE835X, LC46LE835X, LC-52LE835X, LC-60LE835X

Sharp LCD panel: **Code 37**; LC-60LE650x, LC-70LE650x, LC-80LE633U, LC-70/60/52LE640U, LC-70/60/52C6400U

Sharp LCD panel: **Code 3A**; **Via LAN**: PN-60/70TA/B3

Sharp LCD panel: **Code 3B**; **Via RS232 at 38400**: PN-60TA3, PN-70TA3, PN-70TB3, PN-70TB3, PN-80TC3

Smart

Projector family, eg UNIFI 45, INIFI UF55, SLR40wi, UNIFI UX60 **Code 7B**

Smart LCD flat panel (19200) 8055i **Code 70** , 8070i **Code 71** , MX series **Code 07**, (9600 baud) **Code 08**

Soniq LCD panel: via RS232 Code 75

Sony

Code 08 , Even Parity, Code 09 No Parity

Even parity **All Code 08** : SONY VPL-BW5, **VPL-C200 series**, VPL-CW125, VPL-CW255, VPL-CW258, VPL-CW275, VPL-CW278, VPL-CX61, VPL-CX63, VPL-CX80, VPL-CX85, VPL-CX86, VPL-CX100, VPL-CX120, VPL-CX125, VPL-CX130, VPL-CX131, VPL-CX135, VPL-CX150, VPL-CX155, VPL-CX160, VPL-CX161, VPL-CX165, VPL-CX235, VPL-CW238, VPL-CX275, VPL-CX278, VPL-ES4, VPL-DW125, VPL-DX125, VPL-DX145,

VPL-E200 Series, VPL-EW7, VPL-EW130, VPL-EW225, VPL-EW226, VPL-EW245, VPL-EW246, VPL-EW275, VPL-EW276, VPL-DW125, VPL-DX125, VPL-DX145, VPL-EX4, VPL-EX5, VPL-EX7, VPL-EX50, VPL-EX70, VPL-EX71N, VPL-EX100, VPL-EX101, VPL-EX120, VPL-EX121, VPL-EX123, VPL-EX130, VPL-EX145, VPL-EX146, VPL-EX147, VPL-EX148, VPL-EX175, VPL-EX176, VPL-EX178, VPL-EX221, VPL-EX222, VPL-EX225, VPL-EX226, VPL-EX241, VPL-EX242, VPL-EX245, VPL-EX246, VPL-EX271, VPL-EX272, VPL-EX273, VPL-EX274, VPL-EX275, VPL-EX276, VPL-F400H/X , VPL-F401H, VPL-F500H, VPL-F501H , VPL-F600X, VPL-F700HL/XL, VPL-FE40, VPL-FH30, VPL-FH31, VPL-FH35, VPL-FH36, VPL-FH300L, VPL-FH500L, VPL-FW41/L, VPL-FW300L, VPL-FX30, VPL-FX35, VPL-FX37, VPL-FX40, VPL-FX41/L, VPL-FX50, VPL-FX51, VPL-FX52, VPL-FX500L, VPL-HW15, VPL-HW30, VPL-HW50, VPL-PX11, VPL-PX15, VPL-PX35, VPL-PX40, VPL-PX41, **VPL-S200 series**, **VPL-S500 series**, **VPL-S600 series**, VPL-SW125, VPL-SW525/C, VPL-SW526/C, VPL-SW535/C, VPL-SX125, VPL-SX525, VPL-SX535, VPL-TX7, VPL-TX70, VPL-VW70, VPL-VW85, VPL-VW95, VPL-VW200, VPL-VW1000.

No parity: VPL-ES3/EX3: **Code 09**

Sony Alpha ADCP projectors Code 0A

Sony IR controlled projectors, Codes A8, A9, AA

Code A8: (VPL-DW120, VPL-DX120, VPL-DX140)

Code A9, Code AA: Sony projectors with IR-selection of sources.

(Code A9 has common power on/off Code **15**, Code AA has discrete Codes, **2E** for On, **2F** for Off)

Sony LCD Codes 18 to 1B

Code 18: Sony LCD FWD-32/40LX1_R, FWD-50PX2 Group 1

Code19: Sony LCD FDW-32LX2F, FDW-40LX2F, FDW-32LX2X, FDW-40LX2X, KLH-W26, KLH-W32 Group 2

Code 1A: Sony LCD FWD-42PV1-A/P and 42V1, 42X1, 50PX1 Group 3

Code 1B: Sony LCD FWD-S42/47H1, FWD-S42E1 Group 4
GXD-L52/65H1 Group 5

Code 1D: Sony LCD KDL-nnEX500, KDL-nnHX909, KDL-nnXBRx (PRO models only)

Code 40: Sony BRAVIA LCD-TVs KDL-HX92x/82x/72x, NX72x, EX72x/62x/52x/46x/42x/32x, CX52x/400

Toshiba Codes 50 to 56

Code 50: (Group 1.1): TLP-S200/S201/S220/S221, TLP-T400/T401, TLP-T500/T501/T520/T521, TLP-T600/T601/T620/T621, and TLP-T700/T701/T720/T721;

Code 51 (Group 1.2): TDP-MT200/MT400;

Code 51 (Group 1.3): TDP-S20/S21/SC21/S25/SC25/SW25/S35/SC35/SW35, TDP-S80/SW80/S81/T90/TW90/T91/T99/TW99, and TLP-710/711;

Code 51 (Group 1.4): TDP-S8/S10, SW20, TDP-T8/T9/T30/T40/T45/T80/T98, TLP-250/251/260/261/380/381/550/551/560/561/780/781/790/791, TLP-MT7E, TLP-X10U/11U/20U/21U;

Code 51 (Group 1.5): TDP-D1/D2, TLP-S30/S40/S41/S70/S71, and TLP-T50/T60/T61/T70/T71;

Code 52 (Group 1.6): TLP-450/451/470/471/650/651/670/671/680/681/, TLP-B2/U (RGB set only Ch 1).

Code 54 (Group 2.1): TDP-T/TW95, T/TW100,

Code 54 (Group 2.2): TLP-X2000/XC2000/XD2000, TLP-X2500/XC2500, TLP-X3000/XC3000, TLP-WX2200, TDP-T250/TW250, TDP-T300/TW300, TDP-T350/TW350, TDP-T355/TW355

Code 55 (Group 2.3): TDP-ST20, TDP-EX20, TDP-EW25

Code 56 (Group 3): TLP-X100, X150, X200, WX100, WX200

Code 57 (Group 4): TDP-SP1, XP1, XP2

Note: This group not certified for reliable operation yet. Does not support OPT7 handshake.

Kaga - Taxan - Plus

projector families: **Code 40** KG-PV-131S/X/Xh, KG-PS-232X/Xh

2-Touch / CTOUCH

LCD touch panel **Codes 9D**

Viewsonic

Code 44 PJ510/PJ853/PJ656/PJ552/PJ562/PJ750/PJ862/PJ1165/PJ1172/PJ1065
(in Hitachi)

Code 45 PJ759/PJ758/PJ760, PJ1158, 3M-X64, 3M-X90

ViewSonic

projector families: **Code 5C, 5D, 5E**

Codes 5C, 5D PJD5112, PLD6210/11/12, PLD6220/1, PJD6230, PJD6240/1, PJD6251, PJD6381, PJD6531w, PJ557D, PJ559D, PJ560D, Pro8450w, Pro8500, Pro8600

PJD5123, PJD5223, PJD5232, PJD5234, PJD7223, PJD6243, PJD5345, PJD6544w, PJD5353, PJD7333, PJD7533w, PJD8333s, PJD8633ws: All absolute Blank/Mute/Freeze. **Use Code 5E.**

For ViewSonic PJ510, PJ853, PJ656, PJ552, PJ562, PJ750, PJ862, PJ1165, PJ1172, PJ1065 ... see Hitachi, **Code 44**

For ViewSonic PJ759/PJ758/PJ760, PJ1158 ... see Hitachi, **Code 45**

For ViewSonic PRO-8100 ... see Sanyo PLC-WXU10N/E/B, **Code 07**

ViewSonic projector families: **Code 5F**

Pro8200, Pro8300, Pro8400

ViewSonic projector families: **Code 6C** (115200 baud)

PJD5126, PJD5226, PJD5226w, PJD6223, PJD6253, PJD6353, PJD6383, PJD6553w, PJD6653w, PJD6683w (HDMI), PJD6235/PJD6245/PJD6543w (HDMI), PJD8653ws/PJD8353s (HDMI) ultra short throw.

PJD5111 PJD5351 (no HDMI), PJD5152 / PJD5352 (no HDMI), PJD5211/PJD5221/ PJD5231/PJD5122 (no HDMI), PJD7383/ PJD7383i PJD7583w/PJD7583wi (no HDMI), PJD5211/PJD5221/ PJD5231/PJD5122 (no HDMI) (use OPT6 for S-Video on these)

Code 02 (19200 baud) LS810/LS820/LS830

ViewSonic LCD

Vivitek

Code 2C, 2D, 2E , Promethean PRM-25, PRM-35 **Code 2C**

Use Code 2C for projectors with two VGA (RGB) inputs, e.g. D837, or one VGA and no HDMI, e.g. D82EX

Use Code 2D for projectors with one VGA (RGB) input and HDMI as second “Computer” input: E.g. D863, D925, D927, D930, D935, D940, D945, H1080, D1085

Use Code 2E for projectors with ~S1 to ~S7 Codes, Vivitek, D5500, D6000, D6500, D6510, Projection Display: DP3650

Vivitek D5, D55, D75xx, D8, D86x, D9, X7 families **Code 2F**

D54HA, D55BA, D86, D87

D501ZAA, D501ZAA, D501ZWAA, D516, D517, D518, D519, D548, D550, D551, D552, D553, D554, D555, D556, D557, D557W, D557WH, D560ST,

D751ST, D755WT/i, D791ST, D795WT,

D837, D850, D851, D853W, D855ST, D856, D857WT, D858, D859, D860, D861, D862, D863, D864, D865W, D867, D869, D871ST, D873ST,

D910HD, D912HD, D965, D966HD, D967, D968U,

D5005, D5010, D5110W, D5180HD, D5185HD, D5010, D5190HD, D5280U, D5290U, D5380U,

D7080HD, D7180,

H1180HD, H1185HD

Vivitek, Barco, Digital Projection family with “op” style commands. (Note: no audio)

Vivitek: DP-9655NUHA, DP-9655NUHA, DP-9655NDPHA, DU6871/DW6851/DX6831, DU9000 (**Code 4E hex**, 9600 baud)

Barco: RLM-W, W6 series, RLM W8, Digital Projection: 8000 series (**Code 4F**, 38400 baud)

Barco: RLM W12, W14 series, Digital Projection: 7500 Series (**Code 68**, 115200 baud)