T430 and T440 included projector and LCD panel drivers in Code release V169, 13th Mar 2025

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

The default setting is for Projectors

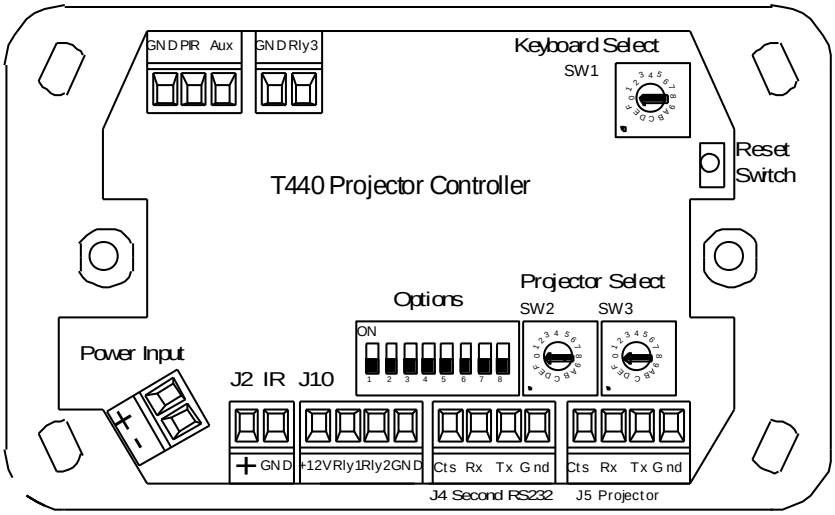
Note: When a unit is re-loaded with a new firmware file, the unit is reset to a "PROJECTOR" setting.

- 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

HDi73 (code 77) at 9600 baud

HDi_FLEX32 (code 8C)at 9600 baud

Hisense RC5-code LCD TV via IR *Code AC*

24F33

Hisense LCD 3 (e.g. 100BM66D): Code 8F

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, 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/HEAPT-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-XB42**N** or LC-**W**B42N. 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 *Code*d 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

***Code*19**: 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)