Control Commands

Model No. PT-FRZ60
PT-FRZ50

・Please refer to the Operating Instructions for the serial command format, limitations, connectionand other details.
・シリアルコマンドのフォーマット、制限事項、接続方法およびその他詳細につきましては、各モデルの取扱説明書をご覧ください。
・有关串行控制命令的格式、限制事项、连接方法以及其他详情、请参阅各机型的使用说明书。

Panasonic

(2020-09)

CONTROL COMMANDS

2020/9/17

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
BASIC OPERATION REMOTE CONTROL	POWER	ON		PON	QPW	001	✓
		OFF (STANDBY)		POF		000	✓
	VOLUME	UP		AUU			✓
		DOWN		AUD			✓
	INPUT SELECT	COMPUTER1		IIS:RG1	QIN	RG1	✓
		COMPUTER2		IIS:RG2		RG2	✓
		VIDEO		IIS:VID		VID	✓
		HDMI1		IIS:HD1		HD1	✓
		HDMI2		IIS:HD2		HD2	✓
		DIGITAL LINK		IIS:DL1		DL1	✓
	INPUT SELECT (DIGITAL LINK)	COMPUTER1		IIS:DL1:PC1	QIN	DL1:PC1	✓
		COMPUTER2		IIS:DL1:PC2		DL1:PC2	✓
		VIDEO		IIS:DL1:VID		DL1:VID	✓
		HDMI1		IIS:DL1:HD1		DL1:HD1	✓
		HDMI2		IIS:DL1:HD2		DL1:HD2	✓
	FREEZE	OFF		OFZ:0	QFZ	0	✓
		ON		OFZ:1		1	✓
	MENU KEY			OMN			✓
	RETURN KEY			OBK			✓
	ENTER KEY			OEN			✓
	UP KEY			OCU			✓
	DOWN KEY			OCD			✓
	LEFT KEY			OCL			✓
	RIGHT KEY			OCR			✓
	DEFAULT KEY			OST			✓
	AUTO SETUP KEY			OAS			✓
	SHUTTER	OFF		OSH:0	QSH	0	✓
		ON		OSH:1		1	✓
	SHUTTER(Toggle)	OFF		OSH	QSH	0	✓
		ON				1	✓
	FUNCTION KEY			FC1			✓
	SYSTEM SELCTOR KEY			OSL			✓
	ASPECT KEY			VS1			✓
	ECO			OEC			✓
	NUMERIC KEY	0		ONK:0			✓
		1		ONK:1			✓
		2		ONK:2			✓
		3		ONK:3			✓
		4		ONK:4			✓
		5		ONK:5			✓
		6		ONK:6			✓
		7		ONK:7			✓
		8		ONK:8			✓
		9		ONK:9			✓
	STATUS KEY			STS			✓
	DIGITAL LINK KEY			DLK			✓
	INPUT MENU KEY			IPT			✓
	SCREEN ADJUSTMENT			OSA			✓
	AUDIO MUTE	OFF		AMT:0	QMT	0	✓
		ON		AMT:1		1	✓
	SELF DIAGNOSIS				QVX:ERRS1	ERRS1=*****.....	✓
PICTURE	PICTURE MODE	DYNAMIC		VPM:DYN	QPM	DYN	✓
		NATURAL		VPM:NAT		NAT	✓
		STANDARD		VPM:STD		STD	✓
		CINEMA		VPM:CIN		CIN	✓
		GRAPHIC		VPM:GRA		GRA	✓
		DICOM SIM.		VPM:DIC		DIC	✓
		REC709		VPM:709		709	✓
	CONTRAST	+1		VCN:001	QVR	001	✓
		+63		VCN:063		063	✓
	BRIGHTNESS	+1		VBR:001	QVB	001	✓
		+63		VBR:063		063	✓
	COLOR	+1		VCO:001	QVC	001	✓
		+63		VCO:063		063	✓
	TINT	+1		VTN:001	QVT	001	✓
		+63		VTN:063		063	✓
	SHARPNESS	0		VSR:000	QVS	000	✓
		15		VSR:015		015	✓
	WHITE GAIN	0		VWH:00	QWH	00	✓
		10		VWH:10		10	✓
	COLOR TEMPERATURE	LOW		OTE:0	QTE	0	✓
		HIGH		OTE:2		2	✓
		USER1(USER)		OTE:04		4	✓
		DEFAULT		OTE:10		10	✓
	COLOR TEMP-NAME SETTING USER1	*COLORTEMP1*		VXX:NCGS1=*COLORTEMP1*	QVX:NCGS1	NCGS1=*COLORTEMP1*	✓
	COLOR TEMP-NAME CLEAR USER1	*COLORTEMP1*		VXX:NCLI1=+00000			✓
	WHITE BALANCE LOW-RED	-127		VOR:001	QOR	001	✓
	WHITE BALANCE LOW-GREEN	-127		VOG:001	QOG	001	✓
		+127		VOG:255		255	✓
	WHITE BALANCE LOW-BLUE	-127		VOB:001	QOB	001	✓
		+127		VOB:255		255	✓
	WHITE BALANCE HIGH-RED	0		VHR:000	QHR	000	✓
		+255		VHR:255		255	✓
	WHITE BALANCE HIGH-GREEN	0		VHG:000	QHG	000	✓
		+255		VHG:255		255	✓
	WHITE BALANCE HIGH-BLUE	0		VHB:000	QHB	000	✓
		+255		VHB:255		255	✓
	GAMMA	1.8		VGA:1.8	QGA	1.8	✓
		2.0		VGA:2.0		2.0	✓
		2.2		VGA:2.2		2.2	✓
		DEFAULT		VGA:DEF		DEF	✓
	DAYLIGHT VIEW	OFF		VXX:DLVI0=+00000	QVX:DLVI0	DLVI0=+00000	✓
		AUTO		VXX:DLVI0=+00001		DLVI0=+00001	✓
		1		VXX:DLVI0=+00002		DLVI0=+00002	✓
		2		VXX:DLVI0=+00003		DLVI0=+00003	✓
		3		VXX:DLVI0=+00004		DLVI0=+00004	✓
	NOISE REDUCTION	OFF		VNS:0	QNS	0	✓
		1		VNS:1		1	✓
		2		VNS:2		2	✓
		3		VNS:3		3	✓
	DYNAMIC CONTRAST/IRIS	OFF		OAI:0	QAI	0	✓
		1		OAI:1		1	✓
		2		OAI:2		2	✓
	TV-SYSTEM	AUTO1		VSG:AT1	QSG	AT1	✓
		NTSC		VSG:NTS		NTS	✓
		NTSC4.43		VSG:N44		N44	✓
		PAL		VSG:PAL		PAL	✓
		PAL-M		VSG:PAM		PAM	✓
		PAL-N		VSG:PAN		PAN	✓
		PAL60		VSG:P60		P60	✓
		SECAM		VSG:SEC		SEC	✓
	SYSTEM SELECTOR RGB(VGA/480P)	VGA60		ORF:0	QRF	0	✓
		480P(YCbCr)		ORF:1		1	✓

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CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
		480p(RGB)		ORF:3		3	✓
	SYSTEM SELECTOR RGB(Other)/DVI/SLOT-DVI	RGB		ORF:0	QRF	0	✓
		YPbPr		ORF:1		1	✓
	SYSTEM SELECTOR HDMI/DIGITAL LINK/SLOT-HDMI	RGB		ORF:0	QRF	0	✓
		YPbPr		ORF:1		1	✓
		AUTO		ORF:2		2	✓
	GEOMETRY	OFF		VXX:GMMI0=+00000	QVX:GMMI0	GMMI0=+00000	✓
		KEYSTONE		VXX:GMMI0=+00001		GMMI0=+00001	✓
		CURVED		VXX:GMMI0=+00002		GMMI0=+00002	✓
		CORNER-CORRECTION		VXX:GMMI0=+00010		GMMI0=+00010	✓
	GEOMETRY-KEYSTONE- LENS THROW RATIO	0.7	0.1 step	VXX:GMKS0=+00.7	QVX:GMKS0	GMKS0=+00.7	✓
		16.5		VXX:GMKS0=+16.5		GMKS0=+16.5	✓
	GEOMETRY-KEYSTONE- VERTICAL BALANCE	-60		VXX:GMKI4=-00060	QVX:GMKI4	GMKI4=-00060	✓
		+60		VXX:GMKI4=+00060		GMKI4=+00060	✓
	GEOMETRY-KEYSTONE- HORIZONTAL BALANCE	-30		VXX:GMKI7=-00030	QVX:GMKI7	GMKI7=-00030	✓
		+30		VXX:GMKI7=+00030		GMKI7=+00030	✓
	GEOMETRY-KEYSTONE- VERTICAL KEYSTONE	-40.0 (-45.0)*	0.2 step	VXX:GMKS8=-40.0	QVX:GMKS8	GMKS8=-40.0	✓
		+40.0 (+45.0)*		VXX:GMKS8=+40.0		GMKS8=+40.0	✓
	GEOMETRY-KEYSTONE- HORIZONTAL KEYSTONE	-15.0 (-40.0)*	0.2 step	VXX:GMKS9=-15.0	QVX:GMKS9	GMKS9=-15.0	✓
		+15.0 (+40.0)*		VXX:GMKS9=+15.0		GMKS9=+15.0	✓
	GEOMETRY-CURVED-LENS THROW RATIO	0.7	0.1 step	VXX:GMCS0=+00.7	QVX:GMCS0	GMCS0=+00.7	✓
		16.5		VXX:GMCS0=+16.5		GMCS0=+16.5	✓
	GEOMETRY-CURVED- VERTICAL ARC	-50 (-100)*		VXX:GMCI3=-00050	QVX:GMCI3	GMCI3=-00050	✓
		+50 (+100)*		VXX:GMCI3=+00050		GMCI3=+00050	✓
	GEOMETRY-CURVED- HORIZONTAL ARC	-50 (-100)*		VXX:GMCI7=-00050	QVX:GMCI7	GMCI7=-00050	✓
		+50 (+100)*		VXX:GMCI7=+00050		GMCI7=+00050	✓
	GEOMETRY-CURVED- VERTICAL BALANCE	-60		VXX:GMCI2=-00060	QVX:GMCI2	GMCI2=-00060	✓
		+60		VXX:GMCI2=+00060		GMCI2=+00060	✓
	GEOMETRY-CURVED- HORIZONTAL BALANCE	-30		VXX:GMCI6=-00030	QVX:GMCI6	GMCI6=-00030	✓
		+30		VXX:GMCI6=+00030		GMCI6=+00030	✓
	GEOMETRY-CURVED- VERTICAL KEYSTONE	-40.0 (-45.0)*	0.2 step	VXX:GMCS8=-40.0	QVX:GMCS8	GMCS8=-40.0	✓
		+40.0 (+45.0)*		VXX:GMCS8=+40.0		GMCS8=+40.0	✓
	GEOMETRY-CURVED- HORIZONTAL KEYSTONE	-15.0 (-40.0)*	0.2 step	VXX:GMCS9=-15.0	QVX:GMCS9	GMCS9=-15.0	✓
		+15.0 (+40.0)*		VXX:GMCS9=+15.0		GMCS9=+15.0	✓
	GEOMETRY-CURVED- MAINTAIN ASPECT RATIO	OFF		VXX:GMCIA=+00000	QVX:GMCIA	GMCIA=+00000	✓
		ON		VXX:GMCIA=+00001		GMCIA=+00001	✓
	GEOMETRY-CORNER CORRECTION- UPPER LEFT(V)	*min.*		VXX:GMFI1=+00000	QVX:GMFI1	GMFI1=+00000	0
		max.		VXX:GMFI1=+00300		GMFI1=+00300	+300
	GEOMETRY-CORNER CORRECTION- UPPER RIGHT(V)	*min.*		VXX:GMFI2=+00000	QVX:GMFI2	GMFI2=+00000	0
		max.		VXX:GMFI2=+00300		GMFI2=+00300	+300
	GEOMETRY-CORNER CORRECTION- LOWER LEFT(V)	*min.*		VXX:GMFI3=-00300	QVX:GMFI3	GMFI3=-00300	-300
		max.		VXX:GMFI3=+00000		GMFI3=+00000	0
POSITION	GEOMETRY-CORNER CORRECTION- LOWER RIGHT(V)	*min.*		VXX:GMFI4=-00300	QVX:GMFI4	GMFI4=-00300	-300
		max.		VXX:GMFI4=+00000		GMFI4=+00000	0
	GEOMETRY-CORNER CORRECTION- LINEARITY(V)	*min.*		VXX:GMFI5=-00127	QVX:GMFI5	GMFI5=-00127	-127
		max.		VXX:GMFI5=+00127		GMFI5=+00127	+127
	GEOMETRY-CORNER CORRECTION- UPPER LEFT(H)	*min.*		VXX:GMFI6=+00000	QVX:GMFI6	GMFI6=+00000	0
		max.		VXX:GMFI6=+00480		GMFI6=+00480	+480
	GEOMETRY-CORNER CORRECTION- UPPER RIGHT(H)	*min.*		VXX:GMFI7=-00480	QVX:GMFI7	GMFI7=-00480	-480
		max.		VXX:GMFI7=+00000		GMFI7=+00000	0
	GEOMETRY-CORNER CORRECTION- LOWER LEFT(H)	*min.*		VXX:GMFI8=+00000	QVX:GMFI8	GMFI8=+00000	0
		max.		VXX:GMFI8=+00480		GMFI8=+00480	+480
	GEOMETRY-CORNER CORRECTION- LOWER RIGHT(H)	*min.*		VXX:GMFI9=-00480	QVX:GMFI9	GMFI9=-00480	-480
		max.		VXX:GMFI9=+00000		GMFI9=+00000	0
	GEOMETRY-CORNER CORRECTION- LINEARITY(H)	*min.*		VXX:GMFIA=-00127	QVX:GMFIA	GMFIA=-00127	-127
		max.		VXX:GMFIA=+00127		GMFIA=+00127	+127
	SHIFT-HORIZONTAL	0		VTH:0000	QTH	0000	✓
		+4095		VTH:4095		4095	✓
	SHIFT-VERTICAL	0		VTV:0000	QTV	0000	✓
		+4094		VTV:4094		4094	✓
	CLOCK PHASE	0		VCP:000	QCP	000	✓
		+31		VCP:031		063	✓
	ASPECT	AUTO/VID AUTO/DEFAULT		VSE:0	QSE	0	✓
		NORMAL(4:3)		VSE:1		1	✓
		WIDE(16:9)		VSE:2		2	✓
		NATIVE(through)		VSE:5		5	✓
		FULL(HV FIT)		VSE:6		6	✓
		H-FIT		VSE:9		9	✓
		V-FIT		VSE:10		10	✓
	ZOOM-HORIZONTAL	50		OZH:050	QZH	050	✓
		999		OZH:999		999	✓
	ZOOM-VERTICAL	50		OZV:050	QZV	050	✓
		999		OZV:999		999	✓
	ZOOM-BOTH	50		OZO:050	QZO	050	✓
		999		OZO:999		999	✓
	ZOOM-INTERLOCKED	OFF		OZS:0	QZS	0	✓
		ON		OZS:1		1	✓
	ZOOM-MODE	INTERNAL		OZT:0	QZT	0	✓
		FULL		OZT:1		1	✓
	DIGITAL CINEMA REALITY	AUTO		OPD:0	QPD	0	✓
		OFF		OPD:1		1	✓
		30p/25p FIXED		OPD:2		2	✓
	BLANKING-UPPER	*min.*		DBU:000	QLU	000	0
		max.		DBU:2398		2398	599
	BLANKING-LOWER	*min.*		DBB:000	QLB	000	0
		max.		DBB:2398		2398	599
	BLANKING-RIGHT	*min.*		DBR:000	QLR	000	0
		max.		DBR:3838		3838	959
	BLANKING-LEFT	*min.*		DBL:000	QLL	000	0
		max.		DBL:3838		3838	959
	INPUT RESOLUTION- TOTAL DOTS	330		VTD:0330	QTD	0330	✓
		4095		VTD:4095		4095	✓
	INPUT RESOLUTION- DISPLAY DOTS	300		VDD:0300	QDD	0300	✓
		4065		VDD:4065		4065	✓
	INPUT RESOLUTION- TOTAL LINES	155		VTL:0155	QTL	0155	✓
		2047		VTL:2047		2047	✓
	INPUT RESOLUTION- DISPLAY LINES	150		VDL:0150	QDL	0150	✓
		2037		VDL:2037		2037	✓
	CLAMP POSITION	1		VLT:001	QLT	001	✓
		255		VLT:255		255	✓
	CUSTOM MASKING *	OFF		VXX:MSKI1=+00000	QVX:MSKI1	MSKI1=+00000	✓
		PC-1		VXX:MSKI1=+00001		MSKI1=+00001	✓
		PC-2		VXX:MSKI1=+00002		MSKI1=+00002	✓
		PC-3		VXX:MSKI1=+00003		MSKI1=+00003	✓
	EDGE BLENDING	OFF		VXX:EDBI0=+00000	QVX:EDBI0	EDBI0=+00000	✓
		ON		VXX:EDBI0=+00001		EDBI0=+00001	✓
		USER		VXX:EDBI0=+00002		EDBI0=+00002	✓
	EDGE BLENDING-UPPER ON/OFF	OFF		VGU:0	QGU	0	✓
		ON		VGU:1		1	✓
	EDGE BLENDING-LOWER ON/OFF	OFF		VGB:0	QGB	0	✓
		ON		VGB:1		1	✓
	EDGE BLENDING-LEFT ON/OFF	OFF		VGL:0	QGL	0	✓
		ON		VGL:1		1	✓

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				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
ADVANCED	EDGE BLENDING-RIGHT ON/OFF	OFF		VGR:0	QGR	0	✓
		ON		VGR:1		1	✓
	EDGE BLENDING-START-UPPER	*min.*		VEU:0000	QEU	0000	✓
		max.		VEU:2272		2272	✓
	EDGE BLENDING-START-LOWER	*min.*		VEB:0000	QEB	0000	✓
		max.		VEB:2272		2272	✓
	EDGE BLENDING-START-LEFT	*min.*		VEL:0000	QEL	0000	✓
		max.		VEL:3712		3712	✓
	EDGE BLENDING-START-RIGHT	*min.*		VER:0000	QER	0000	✓
		max.		VER:3712		3712	✓
	EDGE BLENDING-WIDTH-UPPER	*min.*		VXX:EUWI0=+00000	QVX:EUWI0	EUWI0=+00000	✓
		max.		VXX:EUWI0=+02272		EUWI0=+02272	✓
	EDGE BLENDING-WIDTH-LOWER	*min.*		VXX:EBWI0=+00000	QVX:EBWI0	EBWI0=+00000	✓
		max.		VXX:EBWI0=+02272		EBWI0=+02272	✓
	EDGE BLENDING-WIDTH-LEFT	*min.*		VXX:ELWI0=+00000	QVX:ELWI0	ELWI0=+00000	✓
		max.		VXX:ELWI0=+03712		ELWI0=+03712	✓
	EDGE BLENDING-WIDTH-RIGHT	*min.*		VXX:ERWI0=+00000	QVX:ERWI0	ERWI0=+00000	✓
		max.		VXX:ERWI0=+03712		ERWI0=+03712	✓
	EDGE BLENDING-MARKER-ON/OFF	OFF		VGM:0	QGM	0	✓
		ON		VGM:1		1	✓
	EDGE BLENDING-NON-OVERLAPPED BLACK LEVEL	0 (W,R,G,B)		VJI:000,000,000,000	QJI	000,000,000,000	✓
		255 (W,R,G,B)		VJI:255,255,255,255		255,255,255,255	✓
	EDGE BLENDING-NON-OVERLAPPED BLACK LEVEL-	OFF		VXX:EBII1=+00000	QVX:EBII1	EBII1=+00000	✓
		ON		VXX:EBII1=+00001		EBII1=+00001	✓
	EDGE BLENDING-BLACK BORDER LEVEL	0 (W,R,G,B)		VJO:000,000,000,000	QJO	000,000,000,000	✓
		255 (W,R,G,B)		VJO:255,255,255,255		255,255,255,255	✓
	EDGE BLENDING-BLACK BORDER LEVEL-INTERLOCKED	OFF		VXX:EBII2=+00000	QVX:EBII2	EBII2=+00000	✓
		ON		VXX:EBII2=+00001		EBII2=+00001	✓
	EDGE BLENDING-BLACK BORDER WIDTH-UPPER	*min.*		VJU:0000	QJU	0000	0
		max.		VJU:2272		2272	1023
	EDGE BLENDING-BLACK BORDER WIDTH-LOWER	*min.*		VJB:0000	QJB	0000	0
		max.		VJB:2272		2272	1199
	EDGE BLENDING-BLACK BORDER WIDTH-LEFT	*min.*		VJL:0000	QJL	0000	0
		max.		VJL:3712		3712	1023
	EDGE BLENDING-BLACK BORDER WIDTH-RIGHT	*min.*		VJR:0000	QJR	0000	0
		max.		VJR:3712		3712	1919
	EDGE BLENDING-BLACK BORDER WIDTH-UPPER KEYSTONE AREA	*min.*		VXX:EBBI4=-02272	QVX:EBBI4	EBBI4=-02272	-1199
		max.		VXX:EBBI4=+02272		EBBI4=+02272	1919
	EDGE BLENDING-BLACK BORDER WIDTH-LOWER KEYSTONE AREA	*min.*		VXX:EBBI5=-02272	QVX:EBBI5	EBBI5=-02272	-1199
		max.		VXX:EBBI5=+02272		EBBI5=+02272	1919
	EDGE BLENDING-BLACK BORDER WIDTH-LEFT KEYSTONE AREA	*min.*		VXX:EBBI6=-03712	QVX:EBBI6	EBBI6=-03712	-1199
		max.		VXX:EBBI6=+03712		EBBI6=+03712	1919
	EDGE BLENDING-BLACK BORDER WIDTH-RIGHT KEYSTONE AREA	*min.*		VXX:EBBI7=-03712	QVX:EBBI7	EBBI7=-03712	-1199
		max.		VXX:EBBI7=+03712		EBBI7=+03712	1919
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-UPPER	0 (W,R,G,B)		VXX:EBBS0=000,000,000,000	QVX:EBBS0	EBBS0=000,000,000,000	✓
		255 (W,R,G,B)		VXX:EBBS0=255,255,255,255		EBBS0=255,255,255,255	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-LOWER	0 (W,R,G,B)		VXX:EBBS1=000,000,000,000	QVX:EBBS1	EBBS1=000,000,000,000	✓
		255 (W,R,G,B)		VXX:EBBS1=255,255,255,255		EBBS1=255,255,255,255	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-LEFT	0 (W,R,G,B)		VXX:EBBS2=000,000,000,000	QVX:EBBS2	EBBS2=000,000,000,000	✓
		255 (W,R,G,B)		VXX:EBBS2=255,255,255,255		EBBS2=255,255,255,255	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-RIGHT	0 (W,R,G,B)		VXX:EBBS3=000,000,000,000	QVX:EBBS3	EBBS3=000,000,000,000	✓
		255 (W,R,G,B)		VXX:EBBS3=255,255,255,255		EBBS3=255,255,255,255	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-UPPER	OFF		VXX:EBII3=+00000	QVX:EBII3	EBII3=+00000	✓
		ON		VXX:EBII3=+00001		EBII3=+00001	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-LOWER	OFF		VXX:EBII4=+00000	QVX:EBII4	EBII4=+00000	✓
		ON		VXX:EBII4=+00001		EBII4=+00001	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-LEFT INTERLOCKED	OFF		VXX:EBII5=+00000	QVX:EBII5	EBII5=+00000	✓
		ON		VXX:EBII5=+00001		EBII5=+00001	✓
	EDGE BLENDING-OVERLAPPED BLACK LEVEL-RIGHT	OFF		VXX:EBII6=+00000	QVX:EBII6	EBII6=+00000	✓
		ON		VXX:EBII6=+00001		EBII6=+00001	✓
	EDGE BLENDING-AUTO TESTPATTERN	OFF		VXX:EATI1=+00000	QVX:EATI1	EATI1=+00000	✓
		ON		VXX:EATI1=+00001		EATI1=+00001	✓
	FRAME RESPONSE	NORMAL		VXX:FDYI0=+00000	QVX:FDYI0	FDYI0=+00000	✓
		FAST		VXX:FDYI0=+00001		FDYI0=+00001	✓
	RASTER POSITION-HORIZONTAL	-2048		VRH:2952	QRH	2952	✓
		+2047		VRH:7047		7047	✓
	RASTER POSITION-VERTICAL	-2048		VRV:2952	QRV	2952	✓
		+2047		VRV:7047		7047	✓
DISPLAY LANGUAGE	LANGUAGE	English		OLG:ENG	QLG	ENG	✓
		German		OLG:DEU		DEU	✓
		French		OLG:FRA		FRA	✓
		Spanish		OLG:ESP		ESP	✓
		Italian		OLG:ITL		ITL	✓
		Japanese		OLG:JPN		JPN	✓
		Chinese		OLG:CHI		CHI	✓
		Russian		OLG:RUS		RUS	✓
		Korea		OLG:KOR		KOR	✓
		Portuguse		OLG:POR		POR	✓
		Swedish		OLG:SVE		SVE	✓
		Norwegan		OLG:NOR		NOR	✓
		Danish		OLG:DAN		DAN	✓
		Polish		OLG:POL		POL	✓
		Czech		OLG:CES		CES	✓
		Hungarian		OLG:MAG		MAG	✓
		Thai		OLG:THA		THA	✓
		Dutch		OLG:NLD		NLD	✓
		Finnish		OLG:FIN		FIN	✓
		Romanian		OLG:RUM		RUM	✓
		Turkish		OLG:TUR		TUR	✓
		Arabic		OLG:ARA		ARA	✓
		Kazakh		OLG:KAZ		KAZ	✓
		Vietnamese		OLG:VIE		VIE	✓
	COLOR MATCHING	OFF		VXX:CMAI0=+00000	QVX:CMAI0	CMAI0=+00000	✓
		3COLORS		VXX:CMAI0=+00001		CMAI0=+00001	✓
		7COLORS		VXX:CMAI0=+00002		CMAI0=+00002	✓
		MEASURED		VXX:CMAI0=+00004		CMAI0=+00004	✓
	COLOR MATCHING-3COLORS-RED	0 (R,G,B)		VMR:0000,0000,0000	QMR	0000,0000,0000	✓
		2048,2048,2048(R,G,B)		VMR:2048,2048,2048		2048,2048,2048	✓
	COLOR MATCHING-3COLORS-GREEN	0 (R,G,B)		VMG:0000,0000,0000	QMG	0000,0000,0000	✓
		2048,2048,2048(R,G,B)		VMG:2048,2048,2048		2048,2048,2048	✓
	COLOR MATCHING-3COLORS-BLUE	0 (R,G,B)		VMB:0000,0000,0000	QMB	0000,0000,0000	✓
		2048,2048,2048(R,G,B)		VMB:2048,2048,2048		2048,2048,2048	✓
	COLOR MATCHING-3COLORS-WHITE	256 (GAIN)		VMW:0256	QMW	0256	✓
		2048(GAIN)		VMW:2048		2048	✓
	COLOR MATCHING-3COLORS-AUTO TESTPATTERN	OFF		VXX:CATI0=+00000	QVX:CATI0	CATI0=+00000	✓
		ON		VXX:CATI0=+00001		CATI0=+00001	✓
	COLOR MATCHING-7COLORS-RED	0 (R,G,B)		VXX:C7CS0=0000,0000,0000	QVX:C7CS0	C7CS0=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS0=2048,2048,2048		C7CS0=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-GREEN	0 (R,G,B)		VXX:C7CS1=0000,0000,0000	QVX:C7CS1	C7CS1=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS1=2048,2048,2048		C7CS1=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-BLUE	0 (R,G,B)		VXX:C7CS2=0000,0000,0000	QVX:C7CS2	C7CS2=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS2=2048,2048,2048		C7CS2=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-CYAN	0 (R,G,B)		VXX:C7CS3=0000,0000,0000	QVX:C7CS3	C7CS3=0000,0000,0000	✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
		2048(R,G,B)		VXX:C7CS3=2048,2048,2048		C7CS3=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-MAGE	0 (R,G,B)		VXX:C7CS4=0000,0000,0000	QVX:C7CS4	C7CS4=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS4=2048,2048,2048		C7CS4=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-YELLO	0 (R,G,B)		VXX:C7CS5=0000,0000,0000	QVX:C7CS5	C7CS5=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS5=2048,2048,2048		C7CS5=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-WHITI	0 (R,G,B)		VXX:C7CS6=0000,0000,0000	QVX:C7CS6	C7CS6=0000,0000,0000	✓
		2048(R,G,B)		VXX:C7CS6=2048,2048,2048		C7CS6=2048,2048,2048	✓
	COLOR MATCHING-7COLORS-AUTO TESTPATTERN	OFF		VXX:CATI1=+00000	QVX:CATI1	CATI1=+00000	✓
		ON		VXX:CATI1=+00001		CATI1=+00001	✓
	COLOR MATCHING-MEASURED MODE-MEASURED DATA BLACK	0,1,1 (Y,x,y)		VXX:CMMS0=00000,0001,0001	QVX:CMMS0	CMMS0=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMMS0=65535,0999,0999		CMMS0=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-MEASURED DATA RED	0,1,1 (Y,x,y)		VXX:CMMS1=00000,0001,0001	QVX:CMMS1	CMMS1=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMMS1=65535,0999,0999		CMMS1=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-MEASURED DATA GREEN	0,1,1 (Y,x,y)		VXX:CMMS2=00000,0001,0001	QVX:CMMS2	CMMS2=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMMS2=65535,0999,0999		CMMS2=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-MEASURED DATA BLUE	0,1,1 (Y,x,y)		VXX:CMMS3=00000,0001,0001	QVX:CMMS3	CMMS3=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMMS3=65535,0999,0999		CMMS3=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-MEASURED DATA WHITE	0,1,1 (Y,x,y)		VXX:CMMS4=00000,0001,0001	QVX:CMMS4	CMMS4=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMMS4=65535,0999,0999		CMMS4=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA RED	0,1,1 (Y,x,y)		VXX:CMTS0=00000,0001,0001	QVX:CMTS0	CMTS0=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS0=65535,0999,0999		CMTS0=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA GREEN	0,1,1 (Y,x,y)		VXX:CMTS1=00000,0001,0001	QVX:CMTS1	CMTS1=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS1=65535,0999,0999		CMTS1=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA BLUE	0,1,1 (Y,x,y)		VXX:CMTS2=00000,0001,0001	QVX:CMTS2	CMTS2=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS2=65535,0999,0999		CMTS2=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA CYAN	0,1,1 (Y,x,y)		VXX:CMTS3=00000,0001,0001	QVX:CMTS3	CMTS3=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS3=65535,0999,0999		CMTS3=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA MAGENTA	0,1,1 (Y,x,y)		VXX:CMTS4=00000,0001,0001	QVX:CMTS4	CMTS4=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS4=65535,0999,0999		CMTS4=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA YELLOW	0,1,1 (Y,x,y)		VXX:CMTS5=00000,0001,0001	QVX:CMTS5	CMTS5=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS5=65535,0999,0999		CMTS5=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-TARGET DATA WHITE	0,1,1 (Y,x,y)		VXX:CMTS6=00000,0001,0001	QVX:CMTS6	CMTS6=00000,0001,0001	✓
		65535,999,999(Y,x,y)		VXX:CMTS6=65535,0999,0999		CMTS6=65535,0999,0999	✓
	COLOR MATCHING-MEASURED MODE-AUTO TESTPATTERN	OFF		VXX:CATI3=+00000	QVX:CATI3	CATI3=+00000	✓
		ON		VXX:CATI3=+00001		CATI3=+00001	✓
	COLOR CORRECTION	OFF		VCM:0	QMC	0	✓
		USER		VCM:1		1	✓
	COLOR CORRECTION-RED	-30		VXX:CCRI0=-00030	QVX:CCRI0	CCRI0=-00030	✓
		+30		VXX:CCRI0=+00030		CCRI0=+00030	✓
	COLOR CORRECTION-GREEN	-30		VXX:CCRI1=-00030	QVX:CCRI1	CCRI1=-00030	✓
		+30		VXX:CCRI1=+00030		CCRI1=+00030	✓
	COLOR CORRECTION-BLUE	-30		VXX:CCRI2=-00030	QVX:CCRI2	CCRI2=-00030	✓
		+30		VXX:CCRI2=+00030		CCRI2=+00030	✓
	COLOR CORRECTION-CYAN	-30		VXX:CCRI3=-00030	QVX:CCRI3	CCRI3=-00030	✓
		+30		VXX:CCRI3=+00030		CCRI3=+00030	✓
	COLOR CORRECTION-MAGENTA	-30		VXX:CCRI4=-00030	QVX:CCRI4	CCRI4=-00030	✓
		+30		VXX:CCRI4=+00030		CCRI4=+00030	✓
	COLOR CORRECTION-YELLOW	-30		VXX:CCRI5=-00030	QVX:CCRI5	CCRI5=-00030	✓
		+30		VXX:CCRI5=+00030		CCRI5=+00030	✓
	AUTO SIGNAL	OFF		VXX:AASI0=+00000	QVX:AASI0	AASI0=+00000	✓
		ON		VXX:AASI0=+00001		AASI0=+00001	✓
	AUTO SETUP -MODE	USER		OAM:0	QAM	0	✓
		DEFAULT		OAM:1		1	✓
		WIDE		OAM:2		2	✓
	AUTO SETUP -POSITION ADJ.	OFF		VXX:APAI0=+00000	QVX:APAI0	APAI0=+00000	✓
		ON		VXX:APAI0=+00001		APAI0=+00001	✓
	AUTO SETUP -SIGNAL LEVEL ADJ.	OFF		VXX:ASLI0=+00000	QVX:ASLI0	ASLI0=+00000	✓
		ON		VXX:ASLI0=+00001		ASLI0=+00001	✓
	RGB IN-RGB1 INPUT SETTING	RGB/YPBPR		VXX:RYCI1=+00000	QVX:RYCI1	RYCI1=+00000	✓
		Y/C		VXX:RYCI1=+00001		RYCI1=+00001	✓
	RGB IN-RGB1 SYNC SLICE LEVEL	LOW		VXX:STRI0=+00000	QVX:STRI0	STRI0=+00000	✓
		HIGH		VXX:STRI0=+00001		STRI0=+00001	✓
	RGB IN-RGB1 EDID MODE	DEFAULT		VXX:EDMI7=+00000	QVX:EDMI7	EDMI7=+00000	✓
		SCREEB FIT		VXX:EDMI7=+00001		EDMI7=+00001	✓
		USER		VXX:EDMI7=+00010		EDMI7=+00010	✓
	RGB IN-RGB1 EDID RESOLUTION	1024x768p		VXX:EDRS7=1024:0768:p	QVX:EDRS7	EDRS7=1024:0768:p	✓
		1280x720p		VXX:EDRS7=1280:0720:p		EDRS7=1280:0720:p	✓
		1280x768p		VXX:EDRS7=1280:0768:p		EDRS7=1280:0768:p	✓
		1280x800p		VXX:EDRS7=1280:0800:p		EDRS7=1280:0800:p	✓
		1280x1024p		VXX:EDRS7=1280:1024:p		EDRS7=1280:1024:p	✓
		1366x768p		VXX:EDRS7=1366:0768:p		EDRS7=1366:0768:p	✓
		1400x1050p		VXX:EDRS7=1400:1050:p		EDRS7=1400:1050:p	✓
		1440x900p		VXX:EDRS7=1440:0900:p		EDRS7=1440:0900:p	✓
		1600x900p		VXX:EDRS7=1600:0900:p		EDRS7=1600:0900:p	✓
		1600x1200p		VXX:EDRS7=1600:1200:p		EDRS7=1600:1200:p	✓
		1680x1050p		VXX:EDRS7=1680:1050:p		EDRS7=1680:1050:p	✓
		1920x1080p		VXX:EDRS7=1920:1080:p		EDRS7=1920:1080:p	✓
		1920x1080i		VXX:EDRS7=1920:1080:i		EDRS7=1920:1080:i	✓
		1920x1200p		VXX:EDRS7=1920:1200:p		EDRS7=1920:1200:p	✓
	RGB IN-RGB1 EDID VERTICAL SCAN FREQUENCY	60Hz		VXX:EDVI7=+06000	QVX:EDVI7	EDVI7=+06000	✓
		50Hz		VXX:EDVI7=+05000		EDVI7=+05000	✓
		48Hz		VXX:EDVI7=+04800		EDVI7=+04800	✓
		30Hz		VXX:EDVI7=+03000		EDVI7=+03000	✓
		25Hz		VXX:EDVI7=+02500		EDVI7=+02500	✓
		24Hz		VXX:EDVI7=+02400		EDVI7=+02400	✓
	RGB IN-RGB2 SYNC SLICE LEVEL	LOW		VXX:STRI1=+00000	QVX:STRI1	STRI1=+00000	✓
		HIGH		VXX:STRI1=+00001		STRI1=+00001	✓
	RGB IN-RGB2 EDID MODE	DEFAULT		VXX:EDMI1=+00000	QVX:EDMI1	EDMI1=+00000	✓
		SCREEB FIT		VXX:EDMI1=+00001		EDMI1=+00001	✓
		USER		VXX:EDMI1=+00010		EDMI1=+00010	✓
	RGB IN-RGB2 EDID RESOLUTION	1024x768p		VXX:EDRS1=1024:0768:p	QVX:EDRS1	EDRS1=1024:0768:p	✓
		1280x720p		VXX:EDRS1=1280:0720:p		EDRS1=1280:0720:p	✓
		1280x768p		VXX:EDRS1=1280:0768:p		EDRS1=1280:0768:p	✓
		1280x800p		VXX:EDRS1=1280:0800:p		EDRS1=1280:0800:p	✓
		1280x1024p		VXX:EDRS1=1280:1024:p		EDRS1=1280:1024:p	✓
		1366x768p		VXX:EDRS1=1366:0768:p		EDRS1=1366:0768:p	✓
		1400x1050p		VXX:EDRS1=1400:1050:p		EDRS1=1400:1050:p	✓
		1440x900p		VXX:EDRS1=1440:0900:p		EDRS1=1440:0900:p	✓
		1600x900p		VXX:EDRS1=1600:0900:p		EDRS1=1600:0900:p	✓
		1600x1200p		VXX:EDRS1=1600:1200:p		EDRS1=1600:1200:p	✓
		1680x1050p		VXX:EDRS1=1680:1050:p		EDRS1=1680:1050:p	✓
		1920x1080p		VXX:EDRS1=1920:1080:p		EDRS1=1920:1080:p	✓
		1920x1080i		VXX:EDRS1=1920:1080:i		EDRS1=1920:1080:i	✓
		1920x1200p		VXX:EDRS1=1920:1200:p		EDRS1=1920:1200:p	✓
	RGB IN-RGB2 EDID VERTICAL SCAN FREQUENCY	60Hz		VXX:EDVI1=+06000	QVX:EDVI1	EDVI1=+06000	✓
		50Hz		VXX:EDVI1=+05000		EDVI1=+05000	✓
		48Hz		VXX:EDVI1=+04800		EDVI1=+04800	✓
		30Hz		VXX:EDVI1=+03000		EDVI1=+03000	✓
		25Hz		VXX:EDVI1=+02500		EDVI1=+02500	✓
		24Hz		VXX:EDVI1=+02400		EDVI1=+02400	✓
	HDMI IN-EDID MODE	DEFAULT		VXX:EDMI3=+00000	QVX:EDMI3	EDMI3=+00000	✓
		SCREEN FIT		VXX:EDMI3=+00001		EDMI3=+00001	✓
		USER		VXX:EDMI3=+00010		EDMI3=+00010	✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
DISPLAY OPTION	HDMI IN-EDID RESOLUTION	1024x768p		VXX:EDRS3=1024:0768:p	QVX:EDRS3	EDRS3=1024:0768:p	✓
		1280x720p		VXX:EDRS3=1280:0720:p		EDRS3=1280:0720:p	✓
		1280x768p		VXX:EDRS3=1280:0768:p		EDRS3=1280:0768:p	✓
		1280x800p		VXX:EDRS3=1280:0800:p		EDRS3=1280:0800:p	✓
		1280x1024p		VXX:EDRS3=1280:1024:p		EDRS3=1280:1024:p	✓
		1366x768p		VXX:EDRS3=1366:0768:p		EDRS3=1366:0768:p	✓
		1400x1050p		VXX:EDRS3=1400:1050:p		EDRS3=1400:1050:p	✓
		1440x900p		VXX:EDRS3=1440:0900:p		EDRS3=1440:0900:p	✓
		1600x900p		VXX:EDRS3=1600:0900:p		EDRS3=1600:0900:p	✓
		1600x1200p		VXX:EDRS3=1600:1200:p		EDRS3=1600:1200:p	✓
		1680x1050p		VXX:EDRS3=1680:1050:p		EDRS3=1680:1050:p	✓
		1920x1080p		VXX:EDRS3=1920:1080:p		EDRS3=1920:1080:p	✓
		1920x1080i		VXX:EDRS3=1920:1080:i		EDRS3=1920:1080:i	✓
		1920x1200p		VXX:EDRS3=1920:1200:p		EDRS3=1920:1200:p	✓
	HDMI IN-EDID VERTICAL SCAN FREQUENCY	60Hz		VXX:EDVI3=+06000	QVX:EDVI3	EDVI3=+06000	✓
		50Hz		VXX:EDVI3=+05000		EDVI3=+05000	✓
		48Hz		VXX:EDVI3=+04800		EDVI3=+04800	✓
		30Hz		VXX:EDVI3=+03000		EDVI3=+03000	✓
		25Hz		VXX:EDVI3=+02500		EDVI3=+02500	✓
		24Hz		VXX:EDVI3=+02400		EDVI3=+02400	✓
	HDMI IN-HDMI1 SIGNAL LEVEL	0-1023		VXX:HSLI1=+00000	QVX:HSLI1	HSLI1=+00000	✓
		64-940		VXX:HSLI1=+00001		HSLI1=+00001	✓
		AUTO		VXX:HSLI1=+00002		HSLI1=+00002	✓
	HDMI IN-HDMI2 SIGNAL LEVEL	0-1023		VXX:HSLI2=+00000	QVX:HSLI2	HSLI2=+00000	✓
		64-940		VXX:HSLI2=+00001		HSLI2=+00001	✓
		AUTO		VXX:HSLI2=+00002		HSLI2=+00002	✓
	HDMI IN-HDMI1 EDID SELECT	4K/60p		VXX:HESI1=+00000	QVX:HESI1	HESI1=+00000	✓
		4K/30p		VXX:HESI1=+00001		HESI1=+00001	✓
		2K		VXX:HESI1=+00002		HESI1=+00002	✓
	HDMI IN-HDMI2 EDID SELECT	4K/60p		VXX:HESI2=+00000	QVX:HSLI2	HSLI2=+00000	✓
		4K/30p		VXX:HESI2=+00001		HSLI2=+00001	✓
		2K		VXX:HESI2=+00002		HSLI2=+00002	✓
	HDMI IN-HDM2 EDID MODE	DEFAULT		VXX:EDMI6=+00000	QVX:EDMI3	EDMI6=+00000	✓
		SCREEN FIT		VXX:EDMI6=+00001		EDMI6=+00001	✓
		USER		VXX:EDMI6=+00010		EDMI6=+00010	✓
	HDMI IN-HDMI2 EDID RESOLUTION	1024x768p		VXX:EDRS6=1024:0768:p	QVX:EDRS3	EDRS6=1024:0768:p	✓
		1280x720p		VXX:EDRS6=1280:0720:p		EDRS6=1280:0720:p	✓
		1280x768p		VXX:EDRS6=1280:0768:p		EDRS6=1280:0768:p	✓
		1280x800p		VXX:EDRS6=1280:0800:p		EDRS6=1280:0800:p	✓
		1280x1024p		VXX:EDRS6=1280:1024:p		EDRS6=1280:1024:p	✓
		1366x768p		VXX:EDRS6=1366:0768:p		EDRS6=1366:0768:p	✓
		1400x1050p		VXX:EDRS6=1400:1050:p		EDRS6=1400:1050:p	✓
		1440x900p		VXX:EDRS6=1440:0900:p		EDRS6=1440:0900:p	✓
		1600x900p		VXX:EDRS6=1600:0900:p		EDRS6=1600:0900:p	✓
		1600x1200p		VXX:EDRS6=1600:1200:p		EDRS6=1600:1200:p	✓
		1680x1050p		VXX:EDRS6=1680:1050:p		EDRS6=1680:1050:p	✓
		1920x1080p		VXX:EDRS6=1920:1080:p		EDRS6=1920:1080:p	✓
		1920x1080i		VXX:EDRS6=1920:1080:i		EDRS6=1920:1080:i	✓
		1920x1200p		VXX:EDRS6=1920:1200:p		EDRS6=1920:1200:p	✓
	HDMI IN-HDMI2 EDID VERTICAL SCAN FREQUENCY	60Hz		VXX:EDVI6=+06000	QVX:EDVI3	EDVI6=+06000	✓
		50Hz		VXX:EDVI6=+05000		EDVI6=+05000	✓
		48Hz		VXX:EDVI6=+04800		EDVI6=+04800	✓
		30Hz		VXX:EDVI6=+03000		EDVI6=+03000	✓
		25Hz		VXX:EDVI6=+02500		EDVI6=+02500	✓
		24Hz		VXX:EDVI6=+02400		EDVI6=+02400	✓
	DIGITAL LINK-SIGNAL LEVEL	AUTO		VXX:DKLI1=+00000	QVX:DKLI1	DKLI1=+00000	✓
		0-1023		VXX:DKLI1=+00001		DKLI1=+00001	✓
		64-940		VXX:DKLI1=+00002		DKLI1=+00002	✓
	DIGITAL LINK-EDID SELECT (SINGLE LINK)	EDID1:4K/60p		VXX:LESI1=+00000	QVX:LESI1	LESI1=+00000	✓
		EDID2:4K/30p		VXX:LESI1=+00001		LESI1=+00001	✓
		EDID3:2K		VXX:LESI1=+00002		LESI1=+00002	✓
	DIGITAL LINK-EDID MODE	DEFAULT		VXX:EDMI4=+00000	QVX:EDMI4	EDMI4=+00000	✓
		SCREEN FIT		VXX:EDMI4=+00001		EDMI4=+00001	✓
		USER		VXX:EDMI4=+00010		EDMI4=+00010	✓
	DIGITAL LINK-EDID RESOLUTION	1024x768p		VXX:EDRS4=1024:0768:p	QVX:EDRS4	EDRS4=1024:0768:p	✓
		1280x720p		VXX:EDRS4=1280:0720:p		EDRS4=1280:0720:p	✓
		1280x768p		VXX:EDRS4=1280:0768:p		EDRS4=1280:0768:p	✓
		1280x800p		VXX:EDRS4=1280:0800:p		EDRS4=1280:0800:p	✓
		1280x1024p		VXX:EDRS4=1280:1024:p		EDRS4=1280:1024:p	✓
		1366x768p		VXX:EDRS4=1366:0768:p		EDRS4=1366:0768:p	✓
		1400x1050p		VXX:EDRS4=1400:1050:p		EDRS4=1400:1050:p	✓
		1440x900p		VXX:EDRS4=1440:0900:p		EDRS4=1440:0900:p	✓
		1600x900p		VXX:EDRS4=1600:0900:p		EDRS4=1600:0900:p	✓
		1600x1200p		VXX:EDRS4=1600:1200:p		EDRS4=1600:1200:p	✓
		1680x1050p		VXX:EDRS4=1680:1050:p		EDRS4=1680:1050:p	✓
		1920x1080p		VXX:EDRS4=1920:1080:p		EDRS4=1920:1080:p	✓
		1920x1080i		VXX:EDRS4=1920:1080:i		EDRS4=1920:1080:i	✓
		1920x1200p		VXX:EDRS4=1920:1200:p		EDRS4=1920:1200:p	✓
	DIGITAL LINK-EDID VERTICAL SCAN FREQUENCY	60Hz		VXX:EDVI4=+06000	QVX:EDVI4	EDVI4=+06000	✓
		50Hz		VXX:EDVI4=+05000		EDVI4=+05000	✓
		48Hz		VXX:EDVI4=+04800		EDVI4=+04800	✓
		30Hz		VXX:EDVI4=+03000		EDVI4=+03000	✓
		25Hz		VXX:EDVI4=+02500		EDVI4=+02500	✓
		24Hz		VXX:EDVI4=+02400		EDVI4=+02400	✓
	INPUT GUIDE	OFF		OID:0	QDI	0	✓
		ON (SIMPLE)		OID:1		1	✓
	OSD POSITION	UPPER LEFT		ODP:1	QDP	1	✓
		CETRE LEFT		ODP:2		2	✓
		LOWER LEFT		ODP:3		3	✓
		TOP CENTER		ODP:4		4	✓
		CENTER		ODP:5		5	✓
		LOEER CENTER		ODP:6		6	✓
		UPPER RIGHT		ODP:7		7	✓
		CENTER RIGHT		ODP:8		8	✓
		LOWER RIGHT		ODP:9		9	✓
	OSD ROTATION	OFF		VXX:OSRI1=+00000	QVX:OSRI1	OSRI1=+00000	✓
		CLOCKWISE		VXX:OSRI1=+00001		OSRI1=+00001	✓
		COUNTER CLOCKWISE		VXX:OSRI1=+00002		OSRI1=+00002	✓
	OSD MEMORY	OFF		VXX:OMYI0=+00000	QVX:OMYI0	OMYI0=+00000	✓
		ON		VXX:OMYI0=+00001		OMYI0=+00001	✓
	ON SCREEN	OFF		OOS:0	QOS	0	✓
		ON		OOS:1		1	✓
	WARNING MESSAGE	OFF		VXX:WMDI0=+00000	QVX:WMDI0	WMDI0=+00000	✓
		ON		VXX:WMDI0=+00001		WMDI0=+00001	✓
	OSD DESIGN	1(YELLOW)		MOD:0	QOD	0	✓
		2(BLUE)		MOD:1		1	✓
		3(WHITE)		MOD:2		2	✓
		4(GREEN)		MOD:3		3	✓
		5(PEACH)		MOD:4		4	✓
		6(BROWN)		MOD:5		5	✓
	CLOSED CAPTION SETTING	OFF		OCC:0	QCC	0	✓
		CC1		OCC:1		1	✓
		CC2		OCC:2		2	✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
		CC3		OCC:3		3	✓
		CC4		OCC:4		4	✓
	IMAGE ROTATION	OFF		VXX:IROI1=+00000	QVX:IROI1	IROI1=+00000	✓
		CLOCKWISE		VXX:IROI1=+00001		IROI1=+00001	✓
		COUNTER CLOCKWISE		VXX:IROI1=+00002		IROI1=+00002	✓
	SCREEN SETTING	16:10		VSF:0	QSF	0	✓
		16:9		VSF:1		1	✓
		4:3		VSF:2		2	✓
	SCREEN POSITION-VERTICAL	*min.*		VXX:VSPI0=-00120	QVX:VSPI0	VSPI0=-00120	-60
		max.		VXX:VSPI0=+00120		VSPI0=+00120	60
	SCREEN POSITION-HOROZONTAL	*min.*		VXX:HSPI0=-00320	QVX:HSPI0	HSPI0=-00320	-160
		max.		VXX:HSPI0=+00320		HSPI0=+00320	+160
	STARTUP LOGO	OFF		MLO:0	QLO	0	✓
		USER LOGO		MLO:1		1	✓
		DEFAULT LOGO		MLO:2		2	✓
	UNIFORMITY-PC CORRECTION *	OFF		VXX:UFMI1=+00000	QVX:UFMI1	UFMI1=+00000	✓
		ON(PC)		VXX:UFMI1=+00001		UFMI1=+00001	✓
	UNIFORMITY- WHITE/RED/GREEN/RED	* PARAMETER		E$W:*,****,****,**	E$R:*,**	**,****,****	✓
		* PARAMETER 1	WHITE	E$W:W,****,****,**	E$R:W,**	**,****,****	✓
			RED	E$W:R,****,****,**	E$R:R,**	**,****,****	✓
			GREEN	E$W:G,****,****,**	E$R:G,**	**,****,****	✓
			BLUE	E$W:B,****,****,**	E$R:B,**	**,****,****	✓
		* PARAMETER 2	VERTICAL(-127)	E$W:*,-127,****,**	E$R:*,**	**,-127,****	✓
			VERTICAL(+127)	E$W:*,+127,****,**	E$R:*,**	**,+127,****	✓
		* PARAMETER 3	HORIZONTAL(-127)	E$W:*,****,-127,**	E$R:*,**	**,****,-127	✓
			HOROZONTAL(+127)	E$W:*,****,+127,**	E$R:*,**	**,****,+127	✓
		* PARAMETER 4	L1(OFF)	E$W:*,****,****,0*	E$R:*,0*	0*,****,****	✓
			L1(ON)	E$W:*,****,****,1*	E$R:*,1*	1*,****,****	✓
			L2(OFF)	E$W:*,****,****,*0	E$R:*,*0	*0,****,****	✓
			L2(ON)	E$W:*,****,****,*1	E$R:*,*1	*1,****,****	✓
	SHUTTER SETTING-FADE IN	0.0s(OFF)		VXX:SEFS1=0.0	QVX:SEFS1	SEFS1=0.0	✓
		0.5s		VXX:SEFS1=0.5		SEFS1=0.5	✓
		1.0s		VXX:SEFS1=1.0		SEFS1=1.0	✓
		1.5s		VXX:SEFS1=1.5		SEFS1=1.5	✓
		2.0s		VXX:SEFS1=2.0		SEFS1=2.0	✓
		2.5s		VXX:SEFS1=2.5		SEFS1=2.5	✓
		3.0s		VXX:SEFS1=3.0		SEFS1=3.0	✓
		3.5s		VXX:SEFS1=3.5		SEFS1=3.5	✓
		4.0s		VXX:SEFS1=4.0		SEFS1=4.0	✓
		5.0s		VXX:SEFS1=5.0		SEFS1=5.0	✓
		7.0s		VXX:SEFS1=7.0		SEFS1=7.0	✓
		10.0s		VXX:SEFS1=10.0		SEFS1=10.0	✓
	SHUTTER SETTING-FADE OUT	0.0s(OFF)		VXX:SEFS2=0.0	QVX:SEFS2	SEFS2=0.0	✓
		0.5s		VXX:SEFS2=0.5		SEFS2=0.5	✓
		1.0s		VXX:SEFS2=1.0		SEFS2=1.0	✓
		1.5s		VXX:SEFS2=1.5		SEFS2=1.5	✓
		2.0s		VXX:SEFS2=2.0		SEFS2=2.0	✓
		2.5s		VXX:SEFS2=2.5		SEFS2=2.5	✓
		3.0s		VXX:SEFS2=3.0		SEFS2=3.0	✓
		3.5s		VXX:SEFS2=3.5		SEFS2=3.5	✓
		4.0s		VXX:SEFS2=4.0		SEFS2=4.0	✓
		5.0s		VXX:SEFS2=5.0		SEFS2=5.0	✓
		7.0s		VXX:SEFS2=7.0		SEFS2=7.0	✓
		10.0s		VXX:SEFS2=10.0		SEFS2=10.0	✓
	SHUTTER SETTING-STARTUP	OPEN		VXX:SEFI3=+00000	QVX:SEFI3	SEFI3=+00000	✓
		CLOSE		VXX:SEFI3=+00001		SEFI3=+00001	✓
	BACK COLOR	BLUE		OBC:0	QBC	0	✓
		BLACK		OBC:1		1	✓
		USER LOGO		OBC:2		2	✓
		DEFAULT LOGO		OBC:3		3	✓
	WAVEFORM MONITOR	OFF		OWM:0	QWM	0	✓
		LUMINANCE		OWM:5		5	✓
		RED		OWM:6		6	✓
		GREEN		OWM:7		7	✓
		BLUE		OWM:8		8	✓
	WAVEFORM MONITOR-LINE ADJ.	0		VXX:WMLI0=+00000	QVX:WMLI0	WMLI0=+00000	✓
		+2159		VXX:WMLI0=+02159		WMLI0=+02159	✓
	CUT OFF-RED	OFF		VXX:CUTI1=+00000	QVX:CUTI1	CUTI1=+00000	✓
		ON		VXX:CUTI1=+00001		CUTI1=+00001	✓
	CUT OFF-GREEN	OFF		VXX:CUTI2=+00000	QVX:CUTI2	CUTI2=+00000	✓
		ON		VXX:CUTI2=+00001		CUTI2=+00001	✓
	CUT OFF-BLUE	OFF		VXX:CUTI3=+00000	QVX:CUTI3	CUTI3=+00000	✓
		ON		VXX:CUTI3=+00001		CUTI3=+00001	✓
	COMPUTER1 INPUT/OUTPUT	RGB/YPBPR		VXX:RYCI1=+00000	QVX:RYCI1	RYCI1=+00000	✓
		Y/C		VXX:RYCI1=+00001		RYCI1=+00001	✓
	COMPUTER2 INOUT/OUTPUT SELECT	COMPUTER2 IN		ORI:2IN	QRI	2IN	✓
		COMPUTER2 OUT		ORI:2OU		2OU	✓
	PROJECTOR ID	0(ALL)		RIS:00			✓
		64		RIS:64			✓
	PROJECTION METHOD INSTALLATION	FRONT/DESK		OIL:0	QSP	0	✓
		REAR/DESK		OIL:1		1	✓
		FRONT/CEILING		OIL:2		2	✓
		REAR/CEILING		OIL:3		3	✓
		FRONT/AUTO		OIL:4		4	✓
		REAR/AUTO		OIL:5		5	✓
	PROJECTION METHOD(AUTO)	FRONT/DESK			QVX:PJMI2	PJMI2=+00000	✓
		REAR/DESK				PJMI2=+00001	✓
		FRONT/CEILING				PJMI2=+00002	✓
		REAR/CEILING				PJMI2=+00003	✓
	AUTO COOLING CONDITION-STATUS	FLOOR			QVX:ADRI1	ADRI1=+00000	✓
		CEILING				ADRI1=+00001	✓
		VERTICAL UP				ADRI1=+00002	✓
		VERTICAL DOWN				ADRI1=+00003	✓
	HIGH ALTITUDE MODE	Under 2700m(OFF)		OFM:0	QFM	0	✓
		Over 2700m(ON)		OFM:1		1	✓
	OPERATING MODE	NORMAL		VXX:OPEI1=+00000	QVX:OPEI1	OPEI1=+00000	✓
		ECO		VXX:OPEI1=+00001		OPEI1=+00001	✓
		SILENT		VXX:OPEI1=+00002		OPEI1=+00002	✓
		USER1(USER)		VXX:OPEI1=+00101		OPEI1=+00101	✓
	LIGHT OUTPUT	*min.*		VXX:LOPI2=+00050	QVX:LOPI2	LOPI2=+00050	20%
		max.		VXX:LOPI2=+01000		LOPI2=+01000	100%
	ECO MANAGEMENT-AUTO POWER SAVE	OFF		VXX:ECOI0=+00000	QVX:ECOI0	ECOI0=+00000	✓
		ON		VXX:ECOI0=+00001		ECOI0=+00001	✓
	ECO MANAGEMENT-AMBIENT LIGHT DETECTION	OFF		VXX:ECOI1=+00000	QVX:ECOI1	ECOI1=+00000	✓
		ON		VXX:ECOI1=+00001		ECOI1=+00001	✓
	BRIGHTNESS CONTROL-SETUP-CALIBRATION TIME	OFF		VXX:BTMI1=+00000	QVX:BTMI1	BTMI1=+00000	✓
		00:01		VXX:BTMI1=+00001		BTMI1=+00001	✓
		23:59		VXX:BTMI1=+02359		BTMI1=+02359	✓
		00:00		VXX:BTMI1=+02400		BTMI1=+02400	✓
	BRIGHTNESS CONTROL-SETUP-CALIBRATION MESSAGE	OFF		VXX:BMGI1=+00000	QVX:BMGI1	BMGI1=+00000	✓
		ON		VXX:BMGI1=+00001		BMGI1=+00001	✓
	BRIGHTNESS CONTROL-GAIN	20%		VXX:TGAI0=+00020	QVX:TGAI0	TGAI0=+00020	✓
		100%		VXX:TGAI0=+00100		TGAI0=+00100	✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
PROJECTOR SETUP	BRIGHTNESS CONTROL-SETUP-CONSTANT MODE	OFF		VXX:BCMI0=+00000	QVX:BCMI0	BCMI0=+00000	✓
		AUTO		VXX:BCMI0=+00001		BCMI0=+00001	✓
		PC		VXX:BCMI0=+00002		BCMI0=+00002	✓
	BRIGHTNESS CONTROL-SETUP-LINK	OFF		VXX:BCLI0=+00000	QVX:BCLI0	BCLI0=+00000	✓
		GROUP A		VXX:BCLI0=+00001		BCLI0=+00001	✓
		GROUP B		VXX:BCLI0=+00002		BCLI0=+00002	✓
		GROUP C		VXX:BCLI0=+00003		BCLI0=+00003	✓
		GROUP D		VXX:BCLI0=+00004		BCLI0=+00004	✓
	BRIGHTNESS CONTROL-SETUP APPLY	APPLY		VXX:BCSI0=+00001			✓
	STANDBY MODE	NORMAL		VXX:STMI0=+00000	QVX:STMI0	STMI0=+00000	✓
		ECO		VXX:STMI0=+00003		STMI0=+00003	✓
	QUICK STARTUP	OFF		VXX:QSUI1=+00000	QVX:QSUI1	QSUI1=+00000	✓
		ON		VXX:QSUI1=+00001		QSUI1=+00001	✓
	QUICK STARTUP-VALID PIRIOD	30MIN.		VXX:QSUI2=+00030	QVX:QSUI2	QSUI2=+00030	✓
		60MIN.		VXX:QSUI2=+00060		QSUI2=+00060	✓
		90MIN.		VXX:QSUI2=+00090		QSUI2=+00090	✓
	SCHEDULE	OFF		VXX:SCHI0=+00000	QVX:SCHI0	SCHI0=+00000	✓
		ON		VXX:SCHI0=+00001		SCHI0=+00001	✓
	SCHEDLE-PROGRAM ASSIGN	OFF		VXX:SPGI*=+00000	QVX:SPGI*	SPGI*=+00000	✓
		PROGRAM1		VXX:SPGI*=+00001		SPGI*=+00001	✓
		PROGRAM2		VXX:SPGI*=+00002		SPGI*=+00002	✓
		PROGRAM3		VXX:SPGI*=+00003		SPGI*=+00003	✓
		PROGRAM4		VXX:SPGI*=+00004		SPGI*=+00004	✓
		PROGRAM5		VXX:SPGI*=+00005		SPGI*=+00005	✓
		PROGRAM6		VXX:SPGI*=+00006		SPGI*=+00006	✓
		PROGRAM7		VXX:SPGI*=+00007		SPGI*=+00007	✓
		* PARAMETER	SUN	VXX:SPGI0=+0000*	QVX:SPGI0	SPGI0=+0000*	✓
			MON	VXX:SPGI1=+0000*	QVX:SPGI1	SPGI1=+0000*	✓
			TUE	VXX:SPGI2=+0000*	QVX:SPGI2	SPGI2=+0000*	✓
			WED	VXX:SPGI3=+0000*	QVX:SPGI3	SPGI3=+0000*	✓
			THU	VXX:SPGI4=+0000*	QVX:SPGI4	SPGI4=+0000*	✓
			FRI	VXX:SPGI5=+0000*	QVX:SPGI5	SPGI5=+0000*	✓
			SAT	VXX:SPGI6=+0000*	QVX:SPGI6	SPGI6=+0000*	✓
	SCHEDLE-COMMAND SETTING	COMMAND Del		VXX:SCCS*=**00****	QVX:SCCS*=**	SCCS*=**00****	✓
		STANDBY		VXX:SCCS*=**10****		SCCS*=**10****	✓
		POWER ON		VXX:SCCS*=**11****		SCCS*=**11****	✓
		SHUTTER OPEN		VXX:SCCS*=**20****		SCCS*=**20****	✓
		SHUTTER CLOSE		VXX:SCCS*=**21****		SCCS*=**21****	✓
		RGB1 INPUT		VXX:SCCS*=**31****		SCCS*=**31****	✓
		RGB2 INPUT		VXX:SCCS*=**32****		SCCS*=**32****	✓
		VIDEO INPUT		VXX:SCCS*=**41****		SCCS*=**41****	✓
		DVI-D INPUT		VXX:SCCS*=**51****		SCCS*=**51****	✓
		HDMI1 INPUT		VXX:SCCS*=**53****		SCCS*=**53****	✓
		HDMI2 INPUT		VXX:SCCS*=**54****		SCCS*=**54****	✓
		NORMAL		VXX:SCCS*=**70****		SCCS*=**70****	✓
		ECO		VXX:SCCS*=**71****		SCCS*=**71****	✓
		USER1(USER)		VXX:SCCS*=**75****		SCCS*=**75****	✓
		SILENT		VXX:SCCS*=**78****		SCCS*=**78****	✓
		DIGITAL LINK		VXX:SCCS*=**B0****		SCCS*=**B0****	✓
		INPUT 1		VXX:SCCS*=**B1****		SCCS*=**B1****	✓
		INPUT 2		VXX:SCCS*=**B2****		SCCS*=**B2****	✓
		INPUT 3		VXX:SCCS*=**B3****		SCCS*=**B3****	✓
		INPUT 4		VXX:SCCS*=**B4****		SCCS*=**B4****	✓
		INPUT 5		VXX:SCCS*=**B5****		SCCS*=**B5****	✓
		INPUT 6		VXX:SCCS*=**B6****		SCCS*=**B6****	✓
		INPUT 7		VXX:SCCS*=**B7****		SCCS*=**B7****	✓
		INPUT 8		VXX:SCCS*=**B8****		SCCS*=**B8****	✓
		INPUT 9		VXX:SCCS*=**B9****		SCCS*=**B9****	✓
		INPUT 10		VXX:SCCS*=**BA****		SCCS*=**BA****	✓
		AUDIO IN STANDBY OFF		VXX:SCCS*=**A0****		SCCS*=**A0****	✓
		AUDIO IN STANDBY ON		VXX:SCCS*=**A1****		SCCS*=**A1****	✓
		QUICK STARTUP OFF		VXX:SCCS*=**A2****		SCCS*=**A2****	✓
		QUICK STARTUP ON		VXX:SCCS*=**A3****		SCCS*=**A3****	✓
		AUDIO VOLUME	0	VXX:SCCS*=**C0****		SCCS*=**C0****	✓
			63	VXX:SCCS*=**FF****		SCCS*=**FF****	✓
		* PARAMETER1	PROGRAM1	VXX:SCCS1=********	QVX:SCCS1=**	SCCS1=********	✓
			PROGRAM2	VXX:SCCS2=********	QVX:SCCS2=**	SCCS2=********	✓
			PROGRAM3	VXX:SCCS3=********	QVX:SCCS3=**	SCCS3=********	✓
			PROGRAM4	VXX:SCCS4=********	QVX:SCCS4=**	SCCS4=********	✓
			PROGRAM5	VXX:SCCS5=********	QVX:SCCS5=**	SCCS5=********	✓
			PROGRAM6	VXX:SCCS6=********	QVX:SCCS6=**	SCCS6=********	✓
			PROGRAM7	VXX:SCCS7=********	QVX:SCCS7=**	SCCS7=********	✓
		* PARAMETER2	COMMAND 1	VXX:SCCS*=01******	QVX:SCCS*=01	SCCS*=01******	✓
			COMMAND 16	VXX:SCCS*=16******	QVX:SCCS*=16	SCCS*=16******	✓
		* PARAMETER3	00:00	VXX:SCCS*=****0000		SCCS*=****0000	✓
			23:59	VXX:SCCS*=****2359		SCCS*=****2359	✓
	STARTUP INPUT SELECT	RGB1		VXX:SISS1=RG1	QVX:SISS1	SISS1=RG1	✓
		RGB2		VXX:SISS1=RG2		SISS1=RG2	✓
		DVI-D		VXX:SISS1=DVI		SISS1=DVI	✓
		HDMI1		VXX:SISS1=HD1		SISS1=HD1	✓
		HDMI2		VXX:SISS1=HD2		SISS1=HD2	✓
		DIGITAL LINK		VXX:SISS1=DL1		SISS1=DL1	✓
		SDI1		VXX:SISS1=SD1		SISS1=SD1	✓
		LAST USED		VXX:SISS1=LSU		SISS1=LSU	✓
	STARTUP INPUT SELECT (DIGITAL LINK)	LAST USED		VXX:SISI2=+00000	QVX:SISI2	SISI2=+00000	✓
		INPUT1		VXX:SISI2=+00001		SISI2=+00001	✓
		INPUT2		VXX:SISI2=+00002		SISI2=+00002	✓
		INPUT3		VXX:SISI2=+00003		SISI2=+00003	✓
		INPUT4		VXX:SISI2=+00004		SISI2=+00004	✓
		INPUT5		VXX:SISI2=+00005		SISI2=+00005	✓
		INPUT6		VXX:SISI2=+00006		SISI2=+00006	✓
		INPUT7		VXX:SISI2=+00007		SISI2=+00007	✓
		INPUT8		VXX:SISI2=+00008		SISI2=+00008	✓
		INPUT9		VXX:SISI2=+00009		SISI2=+00009	✓
		INPIT10		VXX:SISI2=+00010		SISI2=+00010	✓
	NO SIGNAL SHUT-OFF	DISABLE		OAF:00	QAF	00	✓
		10min		OAF:10		10	✓
		20min		OAF:20		20	✓
		30min		OAF:30		30	✓
		40min		OAF:40		40	✓
		50min		OAF:50		50	✓
		60min		OAF:60		60	✓
		70min		OAF:70		70	✓
		80min		OAF:80		80	✓
		90min		ODR:90		90	✓
	NO SIGNAL LIGHTS-OUT	DISABLE		VXX:SLOI1=+00000	QVX:SLOI1	SLOI1=+00000	✓
		10SEC.		VXX:SLOI1=+00010		SLOI1=+00010	✓
		20SEC.		VXX:SLOI1=+00020		SLOI1=+00020	✓
		30SEC.		VXX:SLOI1=+00030		SLOI1=+00030	✓
		1MIN.		VXX:SLOI1=+00060		SLOI1=+00060	✓
		2MIN.		VXX:SLOI1=+00120		SLOI1=+00120	✓
		3MIN.		VXX:SLOI1=+00180		SLOI1=+00180	✓
		5MIN.		VXX:SLOI1=+00300		SLOI1=+00300	✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
	FUNCTION BUTTON	DISABLE		OFC:0	QFC	0	✓
		SYSTEM SELECTOR		OFC:1		1	✓
		SYSTEM DAYLIGHT VIEW		OFC:2		2	✓
		SUB MEMORY		OFC:3		3	✓
		WAVEFORM MONITOR		OFC:6		6	✓
	DATE AND TIME-DATE SETTING	Year: yyyy		TSD:201506151	QGD	201506161	✓
		Month: mm		TSD:*yyyymmddw*		*yyyymmddw*	✓
		Date: dd					✓
		Day:w(1~7:Mon~Sun)					✓
	DATE AND TIME-TIME SETTING	Hour: hh		TST:154503	QGT	154503	✓
		Minute: mm		TST:*hhmmss*		*hhmmss*	✓
		Second: ss					✓
	DATE AND TIME-NTP SYNCHRONIZATION	OFF		VXX:NTPI0=+00000	QVX:NTPI0	NTPI0=+00000	✓
		ON		VXX:NTPI0=+00001		NTPI0=+00001	✓
	INITIALIZE-ALL USER DATA	USER INITILIZE		VXX:RSTS1=0*password*			✓
		USER RESTORE		VXX:RSTS1=1*password*			✓
	INITIAL START UP	STANDBY		OPY:0	QPY	0	✓
		ON		OPY:1		1	✓
		LAST MEMORY		OPY:2		2	✓
	AUDIO SETTING-VOLUME	0		AVL:000	QAV	000	✓
		63		AVL:063		063	✓
	AUDIO SETTING-BALANCE	-16		ABL:-16	QBL	-16	✓
		16		ABL:016		16	✓
	AUDIO SETTING-IN STANDBY MODE	OFF		VXX:ASBI0=+00000	QVX:ASBI0	ASBI0=+00000	✓
		ON		VXX:ASBI0=+00001		ASBI0=+00001	✓
	AUDIO SETTING-IN SHUTTER MODE	OFF		VXX:ASHI1=+00000	QVX:ASHI1	ASHI1=+00000	✓
		ON		VXX:ASHI1=+00001		ASHI1=+00001	✓
	AUDIO SETTING-AUDIO IN SELECT-COMPUTER1	AUDIO IN 1		VXX:AINI0=+00000	QVX:AINI0	AINI0=+00000	✓
		AUDIO IN 2		VXX:AINI0=+00001		AINI0=+00001	✓
		AUDIO IN 3		VXX:AINI0=+00002		AINI0=+00002	✓
	AUDIO SETTING-AUDIO IN SELECT-COMPUTER2	AUDIO IN 1		VXX:AINI1=+00000	QVX:AINI1	AINI1=+00000	✓
		AUDIO IN 2		VXX:AINI1=+00001		AINI1=+00001	✓
		AUDIO IN 3		VXX:AINI1=+00002		AINI1=+00002	✓
	AUDIO SETTING-AUDIO IN SELECT-HDMI1	HDMI1 AUDIO IN		VXX:AINI3=+00003	QVX:AINI3	AINI3=+00003	✓
		AUDIO IN 1		VXX:AINI3=+00000		AINI3=+00000	✓
		AUDIO IN 2		VXX:AINI3=+00001		AINI3=+00001	✓
		AUDIO IN 3		VXX:AINI3=+00002		AINI3=+00002	✓
	AUDIO SETTING-AUDIO IN SELECT-VIDEO	AUDIO IN 1		VXX:AINI4=+00000	QVX:AINI4	AINI4=+00000	✓
		AUDIO IN 2		VXX:AINI4=+00001		AINI4=+00001	✓
		AUDIO IN 3		VXX:AINI4=+00002		AINI4=+00002	✓
	AUDIO SETTING-AUDIO IN SELECT-HDMI2	HDMI2 AUDIO IN		VXX:AINI7=+00003	QVX:AINI7	AINI7=+00003	✓
		AUDIO IN 1		VXX:AINI7=+00000		AINI7=+00000	✓
		AUDIO IN 2		VXX:AINI7=+00001		AINI7=+00001	✓
		AUDIO IN 3		VXX:AINI7=+00002		AINI7=+00002	✓
	AUDIO SETTING-AUDIO IN SELECT-DIGITAL LINK	DIGITAL LINK ADUIO IN		VXX:AINI8=+00005	QVX:AINI8	AINI8=+00005	✓
		AUDIO IN 1		VXX:AINI8=+00000		AINI8=+00000	✓
		AUDIO IN 2		VXX:AINI8=+00001		AINI8=+00001	✓
		AUDIO IN 3		VXX:AINI8=+00002		AINI8=+00002	✓
	MODEL NAME	*MODEL NAME*			QID	*MODELNAME*	✓
	SERIAL NUMBER	SW0101234			QSN	*SW0101234*	✓
	PROJECTOR RUNTIME	7864320H			QVX:RTMS1	RTMS1=7864320	✓
	LAMP1(LIGHT1) RUNTIME	9999H			Q$L:1	9999	✓
	LIGHT1 RUNTIME	7864320H			QVX:LRTS3=00	LRTS3=00:7864320	✓
	LIGHT STATUS	ALL OFF			QLS	0	✓
		1:ON, 2:OFF				1	✓
	LAMP(LIGHT) CONTROL STATUS	LAMP OFF			Q$S	0	✓
		In turning ON				1	✓
		LAMP ON				2	✓
		LAMP Cooling				3	✓
	MAC ADDRESS	AB0102030405			QMA	*AB0102030405*	✓
	MAIN FIRMWARE VERSION	V1.00.01			QVX:SVRS0	SVRS0=1.00.01	✓
	SUB FIRMWARE VERSION	V1.00.01			QVX:SVRS2	SVRS2=1.00.01	✓
	INPUT SIGNAL NAME	CHANNEL1 (MAIN CH)			QVX:NSGS1	NSGS1=*****……	✓
		CHANNEL2 (SUB CH)			QVX:NSGS2	NSGS2=*****……	✓
	DC OUT	OFF		VXX:DCOI1=+00000	QVX:DCOI1	DCOI1=+00000	✓
		ON		VXX:DCOI1=+00001		DCOI1=+00001	✓
		ERROR				DCOI1=+00002	✓
	TEMPERATURE (INTAKE)	0030/0080			QTM:0	0030/0080	✓
	TEMPERATURE (EXHAUST AIR)	0030/0080			QTM:1	0030/0080	✓
	TEMPERATURE (OPTICS MODULE)	0030/0080			QTM:2	0030/0080	✓
	TEMPERATURE (LIGHT1 / LIGHT1-	0030/0080			QTM:11	0030/0080	✓
	TEMPERATURE (LIGHT2 / LIGHT1-	0030/0080			QTM:12	0030/0080	✓
	HDMI-CEC	OFF		SHC:FNC0	QHC:FNC	QHC:FNC0	✓
		ON		SHC:FNC1		QHC:FNC1	✓
	HDMI1 (Change Device)	NEXT		SHC:MH1NXT			✓
		PREVIEW		SHC:MH1PRE			✓
	HDMI1 (Get Device Name)	*DEVICE NAME*			QHC:HM1	QHC:HM1*DEVICENAME*	✓
	HDMI2 (Change Device)	NEXT		SHC:MH2NXT			✓
		PREVIEW		SHC:MH2PRE			✓
	HDMI2 (Get Device Name)	*DEVICE NAME*			QHC:HM2	QHC:HM2*DEVICENAME*	✓
	HDMI-CEC - MENU CODE	0x09 (ROOT)		SHC:MNC1	QHC:MNC	QHC:MNC1	✓
		0x0A (SETUP)		SHC:MNC2		QHC:MNC2	✓
		0x0B (CONTENTS)		SHC:MNC3		QHC:MNC3	✓
		0x0C (FAVORITE)		SHC:MNC4		QHC:MNC4	✓
		0x10 (MEDIA TOP)		SHC:MNC5		QHC:MNC5	✓
		0x11 (MEDIA POP UP)		SHC:MNC6		QHC:MNC6	✓
	HDMI-CEC - PROJECTOR ->	DISABLE		SHC:PTSOFF	QHC:PTS	QHC:PTSOFF	✓
		POWER OFF		SHC:PTSPOF		QHC:PTSPOF	✓
		POWER ON/OFF		SHC:PTSPWR		QHC:PTSPWR	✓
	HDMI-CEC - DEVICE ->	DISABLE		SHC:STPOFF	QHC:STP	QHC:STPOFF	✓
		POWER ON		SHC:STPPON		QHC:STPPON	✓
		POWER ON/OFF		SHC:STPPWR		QHC:STPPWR	✓
TEST PATTERN	TEST PATTERN	Off		OTS:00	QTS	00	✓
		White		OTS:01		01	✓
		Black		OTS:02		02	✓
		Window		OTS:05		05	✓
		Reversed Window		OTS:06		06	✓
		Color Bar V		OTS:08		08	✓
		Convergence		OTS:11		11	✓
		Color Bar Side		OTS:51		51	✓
		16:9/4:3		OTS:59		59	✓
		Focus Red		OTS:70		70	✓
		Focus Green		OTS:71		71	✓
		Focus Blue		OTS:72		72	✓
		Focus Cyan		OTS:73		73	✓
		Focus Magenta		OTS:74		74	✓
		Focus Yellow		OTS:75		75	✓
	SIGNAL LIST-REGISTRATION			OEM			✓
	SIGNAL LIST-DELETE	A1		ODM:A1			✓
		A2		ODM:A2			✓
		A7		ODM:A7			✓
		A8		ODM:A8			✓
		L1		ODM:L1			✓

CONTROL COMMANDS

				CONTROL	QUERY		FRZ60 SERIES
CATEGORY	FUNCTION	Parameter/Name	Sub-Parameter	COMMANDS/CALL BACK	COMMANDS	CALL BACK	FRZ60 FRZ680C FRZ50 FRZ580C
SIGNAL LIST		L2		ODM:L2			✓
		L7		ODM:L7			✓
		L8		ODM:L8			✓
	SUB MEMORY LIST-CHANGEOVER	01		OCS:01			✓
		96		OCS:96			✓
	SUB MEMORY LIST-CHANGEOVER (EXTENDED)	01		OCS:01-01			✓
		96		OCS:95-96			✓
	SUB MEMORY LIST-REGISTRATION			OES			✓
	SUB MEMORY LIST-DELETE	01		ODS:01-01			✓
		96		ODS:95-96			✓
	SUB MEMORY USAGE STATE	01			QSB	01	✓
		96				96	✓
SECURITY	SECURITY SETTING	OFF			QVX:SPWI1	SPWI1=+00000	✓
		ON				SPWI1=+00001	✓
NETWORK	DIGITAL LINK MODE	AUTO		VXX:DKMI1=+00001	QVX:DKMI1	DKMI1=+00001	✓
		DIGITAL LINK		VXX:DKMI1=+00002		DKMI1=+00002	✓
		ETHERNET		VXX:DKMI1=+00003		DKMI1=+00003	✓
		LONG REACH MODE		VXX:DKMI1=+00004		DKMI1=+00004	✓
	DIGITAL LINK-DUPLEX(Ethernet)	Auto negotiation		VXX:DKDI1=+00000	QVX:DKDI1	DKDI1=+00000	✓
		100BaseTX-Full		VXX:DKDI1=+00001		DKDI1=+00001	✓
		100BaseTX-Half		VXX:DKDI1=+00002		DKDI1=+00002	✓
	DIGITAL LINK-DUPLEX(DIGITAL LINK)	Auto negotiation		VXX:DKDI2=+00000	QVX:DKDI2	DKDI2=+00000	✓
		100BaseTX-Full		VXX:DKDI2=+00001		DKDI2=+00001	✓
		100BaseTX-Half		VXX:DKDI2=+00002		DKDI2=+00002	✓
	DIGITAL LINK STATUS-LINK	NO LINK			QVX:DKSI1	DKSI1=+00000	✓
		DIGITAL LINK				DKSI1=+00001	✓
		LPM				DKSI1=+00002	✓
		ETHERNET				DKSI1=+00003	✓
	DIGITAL LINK STATUS-HDCP STATUS	NO SIGNAL			QVX:DKSI2	DKSI2=+00000	✓
		OFF				DKSI2=+00001	✓
		ON				DKSI2=+00002	✓
	DIGITAL LINK STATUS-SIGNAL QUALITY (MIN)	-255			QVX:DKSI3	DKSI3=-00255	✓
		0				DKSI3=+00000	✓
	DIGITAL LINK STATUS-SIGNAL QUALITY (MAX)	-255			QVX:DKSI4	DKSI4=-00255	✓
		0				DKSI4=+00000	✓
	DIGITAL LINK INPUT CH LIST	*HD1:HDMI1,HD2:HDMI2….*			QVX:DL1S1	DL1S1=HD1:HDMI1,****:***	✓
	PROJECTOR NAME SETTING	*PROJECTOR1*		VXX:NCGS8=*PROJECTOR1*	QVX:NCGS8	NCGS8=*PROJECTOR1*	✓
	Art-Net SETUP	OFF		VXX:DANI1=+00000	QVX:DANI1	DANI1=+00000	✓
		ON(2.*.*.*)		VXX:DANI1=+00002		DANI1=+00002	✓
		ON(10.*.*.*)		VXX:DANI1=+00003		DANI1=+00003	✓
		ON(MANUAL)		VXX:DANI1=+00004		DANI1=+00004	✓
	Art-Net SETUP-START ADDRESS	1		VXX:DANI3=+00001	QVX:DANI3	DANI3=+00001	✓
		501		VXX:DANI3=+00501		DANI3=+00501	✓
	Art-Net SETUP-NET	0		VXX:DANI4=+00000	QVX:DANI4	DANI4=+00000	✓
		127		VXX:DANI4=+00127		DANI4=+00127	✓
	Art-Net SETUP-SUB NET	0		VXX:DANI5=+00000	QVX:DANI5	DANI5=+00000	✓
		15		VXX:DANI5=+00015		DANI5=+00015	✓
	Art-Net SETUP-UNIVERS	0		VXX:DANI6=+00000	QVX:DANI6	DANI6=+00000	✓
		15		VXX:DANI6=+00015		DANI6=+00015	✓
	Art-Net	OFF		VXX:DANI7=+00000	QVX:DANI7	DANI7=+00000	✓
		WIRELESS LAN		VXX:DANI7=+00011		DANI7=+00011	✓
	Art-Net SETUP-CHANNEL SETTING	DEFAULT		VXX:DANI8=+00000	QVX:DANI8	DANI8=+00000	✓
		1		VXX:DANI8=+00001		DANI8=+00001	✓
		USER		VXX:DANI8=+00100		DANI8=+00100	✓

Note: The commands or parameters with "*" shows avalable commands or parameters for the projector which has been activated by the Upgrade Kit.