

Category	Sub Category	Command Name	1st Index Dimension	2nd Index Dimension	3rd Index Dimension	4th Index Dimension	5th Index Dimension	Command Value or Enumeration	Command	Response	Min Value	Max Value	Default Value	VER_VAR Version
GENERAL	DEVICE TYPE	DEV	NONE	NONE	NONE	NONE	NONE	ENUM_DEV	?	DEV	ORX_1 (97)	ORX_4 (100)	ORX_1 (97)	1
		Comment	(READ ONLY) Device type number						Value Description :					
	MACHINE STATE	DEVICE_GLOBAL_STATE	NONE	NONE	NONE	NONE	NONE	ENUM_DEVICE_OPERATION_STATE	PCdgs	PCdgs	UNKNOWN (0)	READY (255)	UNKNOWN (0)	2
		Comment	(READ ONLY) Device global state						Value Description : 255 = Device ready					
	MACHINE STATE	DIESE_TPP	NONE	NONE	NONE	NONE	NONE	ENUM_DIESE_REQUEST	TPdie	TPdie	NONE (0)	COMPATIBLE_MODE (3)	NONE (0)	1
		Comment	Request to send all current command values						Value Description : The device will enumerate all commands, sending current values. The end of enumeration is signaled by resetting this command to 0 (NONE).					
	COMMAND SET VERSION	VER_TPP	DIM_DEVICE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	TPver	TPver	0	65535	3	3
		Comment	(READ ONLY) Version of this entire command set, for the current firmware						Value Description :					
	UPDATER VERSION	VER_UPDATER	DIM_DEVICE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	VEupd	VEupd	0	4294967295	0	1
		Comment	(READ ONLY) Device firmware version						Value Description : Bit 31 : 0 -> Release, 1 -> BETA Bit 24..30 : Major version Bit 16..23 : Minor version Bit 0..15 : Build version example : 17039434 stands for v1.04.74 Release					
	TPP BUILD	BUILD_TPP	DIM_DEVICE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	TPbul	TPbul	0	4294967295	0	2
		Comment	(READ ONLY) TPP Module Build version						Value Description :					
	MAC ADDR	PC_MAC_ADDRESS	DIM_DEVICE	DIM_MACFIELD	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PCmac	Pcmac	0	255	0	1
		Comment	(READ ONLY) PC Mac Address						Value Description :					

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DEVICE	SHUTDOWN	SHUTDOWN_DEVICE	DIM_DEVICE	NONE	NONE	NONE	NONE	ENUM_SHUTDOWN	PCsht	PCsht	NONE (0)	SHUTDOWN_AND_WOL (2)	NONE (0)	3
		Comment	Shutdown device						Value Description :					
	REBOOT	REBOOT_DEVICE	DIM_DEVICE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PCreb	PCreb	0	1	0	1
		Comment	Reboot device						Value Description : 1 to request device reboot					
	CONTROLLERS COUNT	TPP_CONNECTED_CONTROLLERS	DIM_DEVICE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	TPcon	TPcon	0	5	0	1
		Comment	(READ ONLY) TPP connected controller count						Value Description :					

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SCREEN	SCREEN AVAILABILITY	SP_SCREEN_IS_ENABLED	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPise	SPise	0	1	0	3
		Comment	(READ ONLY) Indicates if screen is enabled and can manage presets (has outputs and not confidence)						Value Description					
	TAKE	SP_TAKE	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPClk	SPClk	0	1	0	1
		Comment	per screen, starts the transition from Next Preset (Preview) to the Current (Program)						Value Description					only writing value 1 is allowed register value must be 0 before writing 1 automatically returns to 0
	TAKE / TBAR AVAILABILITY	GROUP_AVA	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GCava	GCava	0	1	1	1
		Comment	(READ ONLY) TAKE/TBar commands availability						Value Description					1 = TAKE/TBar available
	MULTI TAKE	SP_TAKE_SCREEN_LIST	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPtsl	SPtsl	0	1	0	3
		Comment	take screens listed by SP_SCREEN_LIST						Value Description					
	MULTI TAKE	SP_SCREEN_LIST	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPscl	SPscl	0	1	0	3
		Comment	filters screen for take operations						Value Description					
	MULTI TAKE	SP_SET_SCREEN_LIST_ON_PESMEM_LOAD	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPslu	SPslu	0	1	0	3
		Comment	if set to 1, SP_SCREEN_LIST is set to PESMEM_OP_SCREEN_ENABLE after master preset memory load						Value Description					
	TBAR	SP_TBAR	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SPCtb	SPCtb	0	65535	0	1
		Comment	per screen, TBar position value						Value Description					unit is 1/65536 to allow very fine moves bigger steps can be used TBar position is absolute, meaning that starting value will be alternatively 0 or 65535 this register is controlled together by user and by the device
	BACKGROUND INPUT	SP_PN_INPUTSET	<a href="#">DIM_SCREEN</a>	<a href="#">DIM_PRESET_MODE</a>	NONE	NONE	NONE	<a href="#">ENUM_NATIVE_SET</a>	SPPNi	SPPNi	NONE (0)	8 (8)	NONE (0)	1
		Comment	Native background set displayed on the screen Program/Preview						Value Description					
	SCREEN LAYER COUNT	OSCREEN_MAX_LAYERS	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SCmly	SCmly	0	24	0	1
		Comment	(READ ONLY) Maximum number of layers on screen						Value Description					
	SCREEN SIZE	OSCREEN_STATUS_SIZE_H	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SCsh	SCsh	0	65536	1920	1
		Comment	(READ ONLY) Screen width status						Value Description					size in pixel
	SCREEN SIZE	OSCREEN_STATUS_SIZE_V	<a href="#">DIM_SCREEN</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	SCsv	SCsv	0	65536	1080	1
		Comment	(READ ONLY) Screen height status						Value Description					size in pixel

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SINGLE SCREEN PRESET	PRESET RECALL	PEMEM_LOAD	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMloa	PMloa	0	1	0	1
		Comment	Load request of a memorised preset to the Next (Preview) or Current (Program) preset of a screen						Value Description	1 to request a load, parameters must have been set with the following commands : PEMEM_FILTER_CATEGORY to setup elements filter PEMEM_LOAD_SCALE_ENABLE to control scaling PEMEM_MEMORY_TO to setup origine memory number PEMEM_SCREEN_FROM to setup the destination screen PEMEM_PRESET_FROM to setup destination, PROGRAM OR PREVIEW				
	PRESET RECALL	PEMEM_LOAD_AND_TAKE	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMlot	PMlot	0	1	0	3
		Comment	Same as PEMEM_LOAD, takes the PEMEM_SCREEN_FROM screen after the preset load						Value Description	1 to request a load				
	PRESET RECALL	PEMEM_FILTER_CATEGORY	NONE	NONE	NONE	NONE	NONE	ENUM PEMEM_CATEGORY	PMcat	PMcat	NONE (0)	ALL (2047)	ALL (2047)	1
		Comment	Preset elements filter value, used during preset or master preset memory load operation						Value Description					
	PRESET RECALL	PEMEM_LOAD_SCALE_ENABLE	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMlse	PMlse	0	1	0	1
		Comment	Allows automatic resizing of layers, due to changes in screen size, during preset or master preset memory load operation						Value Description					
	PRESET RECALL	PEMEM_MEMORY_TO	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMmet	PMmet	0	143	0	1
		Comment	Set the origine memory number of a preset memory load operation						Value Description					
	PRESET RECALL	PEMEM_SCREEN_FROM	NONE	NONE	NONE	NONE	NONE	ENUM SCREEN	PMscf	PMscf	S1 (0)	S8 (7)	S1 (0)	1
		Comment	Set the destination screen of a preset memory load operation						Value Description					
	PRESET RECALL	PEMEM_PRESET_FROM	NONE	NONE	NONE	NONE	NONE	ENUM PRESET_MODE	PMprf	PMprf	MAIN (0)	PREVIEW (1)	MAIN (0)	1
		Comment	Set the Program/Preview destination of a preset memory load operation						Value Description					
	PRESET RECALL	PEMEM_SCREEN_WIDTH	DIM_PE_MEMORY	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMscw	PMscw	0	65536	0	1
		Comment	(READ ONLY) Horizontal screen size status of preset memories						Value Description	size in pixel				
	PRESET RECALL	PEMEM_SCREEN_HEIGHT	DIM_PE_MEMORY	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PMsch	PMsch	0	65536	0	1
		Comment	(READ ONLY) Vertical screen size status of preset memories						Value Description	size in pixel				

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MULTIPLE SCREENS PRESET	MASTER PRESET RECALL	PESMEM_VALID	DIM_PES_MEMORY	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSval	PSval	0	1	0	1
		Comment	(READ ONLY) master preset memory validity (status)						Value Description	1 = valid				
	MASTER PRESET RECALL	PESMEM_OP_SCREEN_ENABLE	DIM_SCREEN	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSose	PSose	0	1	1	1
		Comment	Per screen, master preset memory load enable, used to preserve some screens during a master preset recall						Value Description	1 = enable recalling on this screen, if that screen was included in the memory during setup				
	MASTER PRESET RECALL	PESMEM_LOAD	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSloa	PSloa	0	1	0	1
		Comment	Load request of a master memory preset to the Next (Preview) or Current (Program) preset of multiple screens						Value Description	1 to request a load, parameters must have been set with the following commands : PEMEM_FILTER_CATEGORY to setup elements filter PEMEM_LOAD_SCALE_ENABLE to control scaling PEMEM_MEMORY_TO to setup origine master memory number PEMEM_PRESET_FROM to setup the destination, PROGRAM OR PREVIEW				
	MASTER PRESET RECALL	PESMEM_LOAD_AND_TAKE	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSlot	PSlot	0	1	0	3
		Comment	Same as PESMEM_LOAD, takes PESMEM_OP_SCREEN_ENABLE screens after the master preset load						Value Description	1 to request a load and take				
	MASTER PRESET RECALL	PESMEM_MEMORY_TO	NONE	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSmet	PSmet	0	143	0	1
		Comment	Set the origine memory number of a master preset memory load operation						Value Description					
	MASTER PRESET RECALL	PESMEM_PRESET_FROM	NONE	NONE	NONE	NONE	NONE	ENUM PRESET_MODE	PSprf	PSprf	MAIN (0)	PREVIEW (1)	MAIN (0)	1
		Comment	Set the Program/Preview destination of a master preset memory load operation						Value Description					
	MASTER PRESET RECALL	PESMEM_SCREEN_ENABLED	DIM_PES_MEMORY	DIM_SCREEN	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSsse	PSsse	0	1	0	1
		Comment	(READ ONLY) master preset memory validity, per screen (status)						Value Description	1 = this master preset memory screen is valid				
	MASTER PRESET RECALL	PESMEM_SCREEN_MEMORY	DIM_PES_MEMORY	DIM_SCREEN	NONE	NONE	NONE	NO ENUM (see Min / Max values)	PSssm	PSssm	0	143	0	1
		Comment	(READ ONLY) preset memory number, per screen (status)						Value Description					

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LAYER	LAYER INPUT	SP_PE_INPUTNUM	DIM_SCREEN	DIM_PRESET_MODE	DIM_LAYER	NONE	NONE	ENUM_INPUTLAYER	SPPEi	SPPEi	NONE (0)	COLOR (41)	NONE (0)	1
		Comment	Input number displayed						Value Description					

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LIVE INPUT	INPUT SIGNAL DETECTED	SIG_SCAN_VALID	<a href="#">DIM_INPUT</a>	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	ISsva	ISsva	0	1	0	1
		Comment	(READ ONLY) Indicates that a plug was scanned and a valid signal was detected						Value Description	1 = valid signal detected WARNING : due to internal architecture, sometimes some signals cannot be detected on a not active plug				
	INPUT SIGNAL FORMAT	SIG_CURRENT_FORMAT	<a href="#">DIM_INPUT</a>	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	ENUM_IFORMAT_NAME	IScfo	IScfo	NONE (0)	CPU_GTF_16_9_RATIO (56)	NONE (0)	1
		Comment	(READ ONLY) Current format on the plug						Value Description					
	INPUT SIGNAL SIZE	SIG_IMAGE_WIDTH	<a href="#">DIM_INPUT</a>	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	ISiwi	ISiwi	0	65535	0	1
		Comment	(READ ONLY) User selected width of the image (Takes user aspect ratio into account)						Value Description	In pixels				
	INPUT SIGNAL SIZE	SIG_IMAGE_HEIGHT	<a href="#">DIM_INPUT</a>	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	ISihe	ISihe	0	65535	0	1
		Comment	(READ ONLY) User selected height of the image (Takes user aspect ratio into account)						Value Description	In lines				
	INPUT AVAILABILITY	IN_AVAILABLE	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	INava	INava	0	1	0	1
		Comment	(READ ONLY) Informs which input is available on the device						Value Description	1 if the input is available on device				
	INPUT FREEZE	IN_FREEZE	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	INfrz	INfrz	0	1	0	1
		Comment	Freezes an input						Value Description	1 = freeze the input				
	INPUT AUTOSET	IN_AUTOSET_INPUT	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	INasi	INasi	0	1	0	1
		Comment	Request auto settings of all plugs of an input						Value Description	1 = request				
	INPUT AUTOCENTER	IN_AUTOCENTER_INPUT	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	ENUM_AUTOCENTER_REQUEST	INain	INain	IDLE (0)	ADVANCE (2)	IDLE (0)	1
		Comment	Request auto centering for the active plug of the input						Value Description					
	INPUT AUTOCENTER PROGRESS	IN_AUTOCENTER_INPUT_PROGRESS	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	INaip	INaip	0	100	0	1
		Comment	(READ ONLY) Progress status of the auto centering request						Value Description	Progress status in percent				

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FRAME LOGO	VALIDITY	LG_ST_VALID	<a href="#">DIM_LARGE_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LSval	LSval	0	1	0	1
		Comment	Frame validity (image content is available)						Value Description	1 = valid				
	VALIDITY	RD_ST_VALID	<a href="#">DIM_REDUCED_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	RSval	RSval	0	1	0	1
		Comment	Logo validity (image content is available)						Value Description	1 = valid				
	FRAME SIZE	LG_ST_DISPLAY_WIDTH	<a href="#">DIM_LARGE_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LSdwi	LSdwi	0	2048	1920	1
		Comment	(READ ONLY) Frame horizontal size						Value Description	Unit is pixel				
	FRAME SIZE	LG_ST_DISPLAY_HEIGHT	<a href="#">DIM_LARGE_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LSdhe	LSdhe	0	2048	1080	3
		Comment	(READ ONLY) Frame vertical size						Value Description	Unit is line				
	LOGO SIZE	RD_ST_DISPLAY_WIDTH	<a href="#">DIM_REDUCED_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	RSdwi	RSdwi	0	2048	1920	1
		Comment	Logo horizontal size						Value Description	Unit is pixel				
	LOGO SIZE	RD_ST_DISPLAY_HEIGHT	<a href="#">DIM_REDUCED_STILLS</a>	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	RSdhe	RSdhe	0	2048	540	3
		Comment	Logo vertical size						Value Description	Unit is line				

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PLUG	CURRENT PLUG	IN_PLUG	<a href="#">DIM_INPUT</a>	NONE	NONE	NONE	NONE	ENUM_IN_PLUG	INplg	INplg	ANALOG_HD15 (0)	DISPLAY_PORT (5)	SDI (3)	1
		Comment	Defines the input active plug						Value Description					
	PLUG AVAILABILITY	IN_PLUG_AVAILABLE	<a href="#">DIM_INPUT</a>	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	INpav	INpav	0	1	0	1
		Comment	(READ ONLY) Informs which plugs are available on each input						Value Description					

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HDCP	INPUT HDCP STATE	SIG_HDCP Comment	<a href="#">DIM_INPUT</a> (READ ONLY) HDCP compliance status for this input and plug	<a href="#">DIM_IN_PLUG</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	IShdc	IShdc	0	1	0	1
										Value Description	1 = HDCP detected			
	OUTPUT HDCP STATE	OUT_ISHDCP Comment	<a href="#">DIM_OUTPUT</a> (READ ONLY) HDCP status for this output plug	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	OUIhc	OUIhc	0	1	0	1
										Value Description	1 = the signal on this plug is crypted with HDCP			
	MONITORING HDCP STATE	MOUT_ISHDCP Comment	<a href="#">DIM_DEVICE</a> HDCP status for this monitoring	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MOIhc	MOIhc	0	1	0	1
										Value Description	1 = the signal on this plug is crypted with HDCP			

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MONITORING	FULLSCREEN	MONITORING_FULLSCREEN_ENABLE Comment	<a href="#">DIM_DEVICE</a> Monitoring fullscreen mode enable	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MLfen	MLfen	0	1	0	1
										Value Description	0 = mosaic mode, 1 = fullscreen mode			
	FULLSCREEN	MONITORING_FULLSCREEN_SOURCE Comment	<a href="#">DIM_DEVICE</a> Monitoring source in fullscreen mode	NONE	NONE	NONE	NONE	<a href="#">ENUM_MONITORING_ELEMENT_SOURCES</a>	MLfes	MLfes	IN_1 (0)	P8 (55)	IN_1 (0)	1
										Value Description				
	WIDGETS	MONITORING_CUSTOM_ELEMENT_SOURCE Comment	<a href="#">DIM_DEVICE</a> Monitoring sources in mosaic mode	<a href="#">DIM_MONITORING_ELEMENT</a>	NONE	NONE	NONE	<a href="#">ENUM_MONITORING_ELEMENT_SOURCES</a>	MLces	MLces	IN_1 (0)	P8 (55)	IN_1 (0)	1
										Value Description				
	UPDATE	MONITORING_UPDATE Comment	<a href="#">DIM_DEVICE</a> Monitoring update, applies changes	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MLupd	MLupd	0	1	0	1
										Value Description	1 = update, automatically returns to 0			
	UPDATE	MONITORING_UPDATE_STATUS Comment	<a href="#">DIM_DEVICE</a> Monitoring update status	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MLups	MLups	0	1	0	1
										Value Description	1 = busy			
	PRESET RECALL	MON_MEM_LOAD Comment	<a href="#">DIM_MON_MEM_SET</a> Monitoring layout load request	<a href="#">DIM_DEVICE</a>	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MMloa	MMloa	0	1	0	2
										Value Description	1 = request to load			
	PRESET RECALL	MON_MEM_OUTPUT_WIDTH Comment	<a href="#">DIM_MON_MEM_SET</a> (READ ONLY) output size H in pixel status for monitoring layout memory	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MMouw	MMouw	0	65536	0	2
										Value Description	Unit is pixel			
	PRESET RECALL	MON_MEM_OUTPUT_HEIGHT Comment	<a href="#">DIM_MON_MEM_SET</a> (READ ONLY) output size V in pixel status for monitoring layout memory	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MMouh	MMouh	0	65536	0	2
										Value Description	Unit is line			
	PRESET RECALL	MON_MEM_MAX_WIDGETS Comment	<a href="#">DIM_MON_MEM_SET</a> (READ ONLY) max widget status for monitoring layout memory	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	MMmax	MMmax	0	12	0	2
										Value Description				

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LABELS	INPUT NAME	INPUT_LABEL	DIM_INPUT	DIM_IN_PLUG	DIM_STRING_16CHARS	NONE	NONE	NO ENUM (see Min / Max values)	LBInp	LBInp	0	126	0	1
		Comment	Input label string						Value Description					
	FRAME NAME	LARGE_STILL_LABEL	DIM_LARGE_STILLS	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBIGs	LBIGs	0	126	0	1
		Comment	Large still label string						Value Description					
	LOGO NAME	REDUCED_STILL_LABEL	DIM_REduced_STILLS	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBRdS	LBRdS	0	126	0	1
		Comment	Reduced still label string						Value Description					
	OUTPUT NAME	OUTPUT_LABEL	DIM_OUTPUT	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBOut	LBOut	0	126	0	1
		Comment	Output label string						Value Description					
	MONITORING NAME	MONITORING_LABEL	DIM_DEVICE	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBMon	LBMon	0	126	0	1
		Comment	Monitoring label string						Value Description					
	MONITORING MEMORY NAME	MONITORING_MEM_LABEL	DIM_MON_MEM_SET	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBMmo	LBMmo	0	126	0	2
		Comment	Monitoring memory label string						Value Description					
	SCREEN NAME	SCREEN_LABEL	DIM_SCREEN	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBScr	LBScr	0	126	0	1
		Comment	Screen label string						Value Description					
	PRESET MEMORY NAME	PEMEM_LABEL	DIM_PE_MEMORY	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBPMe	LBPMe	0	126	0	1
		Comment	Preset memory label string						Value Description					
	MASTER PRESET MEMORY NAME	PESMEM_LABEL	DIM_PES_MEMORY	DIM_STRING_16CHARS	NONE	NONE	NONE	NO ENUM (see Min / Max values)	LBPSe	LBPSe	0	126	0	1
		Comment	Master preset memory label string						Value Description					
	INPUT SIGNAL NAME	SIG_CURRENT_FORMAT_NAME	DIM_INPUT	DIM_IN_PLUG	DIM_STRING	NONE	NONE	NO ENUM (see Min / Max values)	IScfn	IScfn	0	255	(78,79,32,86,65,76,73,68,32,83,73,71,78,65,76,0)	1
		Comment	[READ ONLY] Name of the current format in ASCII						Value Description					The string is ended with a NUL character if string is smaller than maximum allowed. If string used maximum no NUL character is used

Category	Sub Category	Command Name	1st Index Dimension	2nd Index Dimension	3rd Index Dimension	4th Index Dimension	5th Index Dimension	Command Value or Enumeration	Command	Response	Min Value	Max Value	Default Value	VER_VAR Version
GPIO	GPIO	GPIO_IN_AVAILABLE	DIM_GPIO	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GPiav	GPiav	0	1	0	1
		Comment	[READ ONLY] Informs if the GPIO is available						Value Description					1 if the GPIO is available
	GPIO	GPIO_IN_STATUS	DIM_GPIO	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GPist	GPist	0	1	0	1
		Comment	[READ ONLY] Status of the input (active or not)						Value Description					1 means that the GPI is active
	GPIO	GPIO_IN_MODE	DIM_GPIO	NONE	NONE	NONE	NONE	ENUM_GPIO_MODE	GPimo	GPimo	FREE (0)	TAKE (1)	FREE (0)	2
		Comment	GPIO mode						Value Description					
	GPIO	GPIO_IN_TAKE_SCREEN	DIM_GPIO	DIM_SCREEN	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GPits	GPits	0	1	0	2
		Comment	Screen to take when GPI is in "TAKE" mode						Value Description					1 means that GPI TAKE will be applied on this screen
	GPO	GPIO_OUT_AVAILABLE	DIM_GPO	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GPOav	GPOav	0	1	0	1
		Comment	[READ ONLY] Informs if the GPO is available						Value Description					1 if the GPO is available
	GPO	GPIO_OUT_COMMAND	DIM_GPO	NONE	NONE	NONE	NONE	NO ENUM (see Min / Max values)	GPofa	GPofa	0	1	0	1
		Comment	Should be written only in "Free GPO Mode", to activate or not the GPO Can be read in Tally mode, to know the Tally state						Value Description					write 1 to activate the GPO reading 1 indicates an active Tally output
	GPO	GPIO_OUT_MODE	DIM_GPO	NONE	NONE	NONE	NONE	ENUM_GPO_MODE	GPomo	GPomo	FREE (0)	TALLY_AFTER_TRANSITION (2)	FREE (0)	2
		Comment	GPO mode, either generic GPO or TALLY output modes						Value Description					
	TALLY	GPIO_OUT_TALLY_INPUT	DIM_GPO	DIM_SCREEN	DIM_INPUTLAYER	NONE	NONE	NO ENUM (see Min / Max values)	GPoti	GPoti	0	1	0	2
		Comment	In TALLY mode, sets the triggering inputs and screens for the Tally output						Value Description					1 if this input displayed in this screen should activate the TALLY output

Name	Type	Min Value	Max Value	Comments	VER_VAR Version
DIM_DEVICE	<a href="#">ENUM_DEVICE</a>	MASTER	SLAVE	device dimension (Master/Slave)	1
DIM_MACFIELD	NONE (see Min / Max values)	0	5	List of Mac address fields	1
DIM_SCREEN	<a href="#">ENUM_SCREEN</a>	S1	S8	Screens dimension	1
DIM_PRESET_MODE	<a href="#">ENUM_PRESET_MODE</a>	MAIN	PREVIEW	Program/Preview dimension	1
DIM_PE_MEMORY	NONE (see Min / Max values)	0	143	preset memories dimension	1
DIM_PES_MEMORY	NONE (see Min / Max values)	0	143	master preset memories dimension	1
DIM_LAYER	<a href="#">ENUM_LAYER</a>	L1	L24	Layers dimension	1
DIM_INPUT	<a href="#">ENUM_INPUT</a>	IN_1	IN_24	Live inputs dimension	1
DIM_IN_PLUG	<a href="#">ENUM_IN_PLUG</a>	ANALOG_HD15	DISPLAY_PORT	Plugs dimension	1
DIM_LARGE_STILLS	<a href="#">ENUM_LARGE_STILLS</a>	1	8	Frames dimension	1
DIM_REDUCED_STILLS	<a href="#">ENUM_REDUCED_STILLS</a>	1	8	Logos dimension	1
DIM_OUTPUT	<a href="#">ENUM_OUTPUT</a>	OUTPUT_1	OUTPUT_8	Outputs dimension	1
DIM_MONITORING_ELEMENT	NONE (see Min / Max values)	0	11	Monitoring windows dimension	1
DIM_MON_MEM_SET	NONE (see Min / Max values)	0	7	Monitoring layout dimension	1
DIM_STRING_16CHARS	NONE (see Min / Max values)	0	15	16 characters string dimension	1
DIM_STRING	NONE (see Min / Max values)	0	15	String dimension	1
DIM_GPI	<a href="#">ENUM_GPI</a>	1	2	General Purpose inputs	1
DIM_GPO	<a href="#">ENUM_GPO</a>	1	10	General Purpose outputs	1
DIM_INPUTLAYER	<a href="#">ENUM_INPUTLAYER</a>	NONE	COLOR	List of inputs that can go into a layer	1

Name	Value Name	Values	Description	Comments	VER_VAR Version
ENUM_DEV	ORX_1	97	NeXtage 16	Devices list	1
	ORX_2	98	SmartMatrix Ultra		
	ORX_3	99	Ascender 32		
	ORX_4	100	Ascender 48		
ENUM_DEVICE_OPERATION_STATE	UNKNOWN	0	Unknown device state	List of device operation states	1
	INITIALIZING	1	Initializing device		
	RECALL	2	Recalling memory (internal memory or configuration file)		
	COUPLING	3	Coupling in progress		
	FACTORY_RESET	4	Factory reset in progress		
	UPDATING	5	Update in progress		
	READY	255	Device is ready		
ENUM_DIESE_REQUEST	NONE	0	No Diese request is pending	List of Diese possible requests	1
	ALL	1	The device will dump all its command values (all index values)		
	DIFFERENT_FROM_DEFAULTS	2	The device will dump all its command values except those having the default value		
	COMPATIBLE_MODE	3	Same as "DIFFERENT_FROM_DEFAULTS" except that commands with multiple default values are dumped even if they have the default value		
ENUM_DEVICE	MASTER	0	Master device selection	Select always the master device in additive configuration except for "monitoring" commands	1
	SLAVE	1	Slave device selection		
ENUM_SHUTDOWN	NONE	0	Idle	List of Shutdown device	1
	SHUTDOWN	1	Shutdown of device		
	SHUTDOWN_AND_WOL	2	Shutdown of device and Enable Wake On LAN		
ENUM_SCREEN	S1	0	Screen 1	Screens List	1
	S2	1	Screen 2		
	S3	2	Screen 3		
	S4	3	Screen 4		
	S5	4	Screen 5		
	S6	5	Screen 6		
	S7	6	Screen 7		
	S8	7	Screen 8		
ENUM_PRESET_MODE	MAIN	0	Program output	Program/Preview list	1
	PREVIEW	1	Preview output		
ENUM_NATIVE_SET	NONE	0	No Set	List of Native Sets	1
	1	1	Set 1		
	2	2	Set 2		
	3	3	Set 3		
	4	4	Set 4		
	5	5	Set 5		
	6	6	Set 6		
	7	7	Set 7		
	8	8	Set 8		



<b>ENUM_PEMEM_CATEGORY</b>	NONE	0	no element is copied when loading Preset or Master Preset memory	List of preset elements that are copied during preset memory load or master preset memory load  Compute the filter by adding values from 1 to 1024	1
	INPUTNUM	1	source category is copied when loading Preset or Master Preset memory		
	POSSIZE	2	position and size categories are copied when loading Preset or Master Preset memory		
	TRANSPARENCY	4	transparency category is copied when loading Preset or Master Preset memory		
	CROP	8	crop category is copied when loading Preset or Master Preset memory		
	BORDER	16	border category is copied when loading Preset or Master Preset memory		
	TRANSITIONS	32	transitions category is copied when loading Preset or Master Preset memory		
	EFFECTS	64	effects category is copied when loading Preset or Master Preset memory		
	TIMING	128	timing category is copied when loading Preset or Master Preset memory		
	SPEED	256	speed category is copied when loading Preset or Master Preset memory		
	FLYINGCURVE	512	flying curve category is copied when loading Preset or Master Preset memory		
	NATIVE	1024	native bkg category is copied when loading Preset or Master Preset memory		
	ALL	2047	All categories are copied when loading Preset or Master Preset memory		
<b>ENUM_LAYER</b>	L1	0	Layer 1	Layers List	1
	L2	1	Layer 2		
	L3	2	Layer 3		
	L4	3	Layer 4		
	L5	4	Layer 5		
	L6	5	Layer 6		
	L7	6	Layer 7		
	L8	7	Layer 8		
	L9	8	Layer 9		
	L10	9	Layer 10		
	L11	10	Layer 11		
	L12	11	Layer 12		
	L13	12	Layer 13		
	L14	13	Layer 14		
	L15	14	Layer 15		
	L16	15	Layer 16		
	L17	16	Layer 17		
	L18	17	Layer 18		
	L19	18	Layer 19		
	L20	19	Layer 20		
	L21	20	Layer 21		
	L22	21	Layer 22		
	L23	22	Layer 23		
	L24	23	Layer 48		

ENUM_INPUTLAYER	NONE	0	No input	List of Inputs assignable on Layers	1
	LIVE_1	1	Input 1 of Master Device		
	LIVE_2	2	Input 2 of Master Device		
	LIVE_3	3	Input 3 of Master Device		
	LIVE_4	4	Input 4 of Master Device		
	LIVE_5	5	Input 5 of Master Device		
	LIVE_6	6	Input 6 of Master Device		
	LIVE_7	7	Input 7 of Master Device		
	LIVE_8	8	Input 8 of Master Device		
	LIVE_9	9	Input 9 of Master Device		
	LIVE_10	10	Input 10 of Master Device		
	LIVE_11	11	Input 11 of Master Device		
	LIVE_12	12	Input 12 of Master Device		
	LIVE_13	13	Input 1 of Slave Device		
	LIVE_14	14	Input 2 of Slave Device		
	LIVE_15	15	Input 3 of Slave Device		
	LIVE_16	16	Input 4 of Slave Device		
	LIVE_17	17	Input 5 of Slave Device		
	LIVE_18	18	Input 6 of Slave Device		
	LIVE_19	19	Input 7 of Slave Device		
	LIVE_20	20	Input 8 of Slave Device		
	LIVE_21	21	Input 9 of Slave Device		
	LIVE_22	22	Input 10 of Slave Device		
	LIVE_23	23	Input 11 of Slave Device		
	LIVE_24	24	Input 12 of Slave Device		
	STILL_1	25	Frame 1 of master device		
	STILL_2	26	Frame 2 of master device		
	STILL_3	27	Frame 3 of master device		
	STILL_4	28	Frame 4 of master device		
	STILL_5	29	Frame 1 of slave device		
	STILL_6	30	Frame 2 of slave device		
	STILL_7	31	Frame 3 of slave device		
	STILL_8	32	Frame 4 of slave device		
	REDUCED_1	33	Logo 1 of master device		
	REDUCED_2	34	Logo 2 of master device		
	REDUCED_3	35	Logo 3 of master device		
	REDUCED_4	36	Logo 4 of master device		
	REDUCED_5	37	Logo 1 of slave device		
	REDUCED_6	38	Logo 2 of slave device		
	REDUCED_7	39	Logo 3 of slave device		
	REDUCED_8	40	Logo 4 of slave device		
	COLOR	41	Color (or Black) fill the PiP		

ENUM_INPUT	IN_1	0	Input 1 of Master Device	List of Inputs	1
	IN_2	1	Input 2 of Master Device		
	IN_3	2	Input 3 of Master Device		
	IN_4	3	Input 4 of Master Device		
	IN_5	4	Input 5 of Master Device		
	IN_6	5	Input 6 of Master Device		
	IN_7	6	Input 7 of Master Device		
	IN_8	7	Input 8 of Master Device		
	IN_9	8	Input 9 of Master Device		
	IN_10	9	Input 10 of Master Device		
	IN_11	10	Input 11 of Master Device		
	IN_12	11	Input 12 of Master Device		
	IN_13	12	Input 1 of Slave Device		
	IN_14	13	Input 2 of Slave Device		
	IN_15	14	Input 3 of Slave Device		
	IN_16	15	Input 4 of Slave Device		
	IN_17	16	Input 5 of Slave Device		
	IN_18	17	Input 6 of Slave Device		
	IN_19	18	Input 7 of Slave Device		
	IN_20	19	Input 8 of Slave Device		
	IN_21	20	Input 9 of Slave Device		
	IN_22	21	Input 10 of Slave Device		
	IN_23	22	Input 11 of Slave Device		
	IN_24	23	Input 12 of Slave Device		
ENUM_IN_PLUG	ANALOG_HD15	0	Plug of analog type (HD15 socket)	List of plug for an input	1
	ANALOG_DVI	1	Plug of analog type (DVI-A socket)		
	DVI	2	Plug of DVI type (Single or dual link)		
	SDI	3	Plug of SDI type		
	HDMI	4	Plug of HDMI type		
	DISPLAY_PORT	5	Plug of DisplayPort type		

ENUM_IFORMAT_NAME	NONE	0	NONE	Name of the input format/standard	1
	INVALID	1	INVALID		
	UNKNOWN	2	UNKNOWN		
	SDTV_NTSC	3	SDTV NTSC		
	SDTV_PAL	4	SDTV PAL		
	SDTV_SECAM	5	SDTV SECAM		
	SDTV_480i	6	SDTV 480i		
	SDTV_576i	7	SDTV 576i		
	EDTV_480p	8	EDTV 480p		
	EDTV_576p	9	EDTV 576p		
	HDTV_720p	10	HDTV 720p		
	HDTV_1035i	11	HDTV 1035i		
	HDTV_1080i	12	HDTV 1080i		
	HDTV_1080p	13	HDTV 1080p		
	HDTV_2K	14	HDTV 2048x1080 Cinema		
	CEA_240p	15	CEA861 720x240p		
	CEA_288p	16	CEA861 720x288p		
	CPU_640x350	17	CPU 640x350		
	CPU_640x400	18	CPU 640x400		
	CPU_720x400	19	CPU 720x400		
	CPU_640x480	20	CPU VGA		
	CPU_800x480	21	CPU WVGA 5/3		
	CPU_848x480	22	CPU WVGA		
	CPU_800x600	23	CPU SVGA		
	CPU_1280x600	24	CPU 1280x600		
	CPU_1280x720	25	CPU 720p RGB		
	CPU_1024x768	26	CPU XGA		
	CPU_1280x768	27	CPU WXGA		
	CPU_1360x768	28	CPU SWXGA		
	CPU_1366x768	29	CPU 1366x768		
	CPU_1280x800	30	CPU 800p RGB		
	CPU_1366x800	31	CPU SWXGA+		
	CPU_1152x864	32	CPU 1152x864		
	CPU_1440x900	33	CPU 900p RGB		
	CPU_1600x900	34	CPU 1600x900		
	CPU_1280x960	35	CPU 960p RGB		
	CPU_1280x1024	36	CPU SXGA		
	CPU_1360x1024	37	CPU SXGA3		
	CPU_1400x1050	38	CPU SXGA+		
	CPU_1680x1050	39	CPU WSXGA+		
	CPU_1920x1080	40	CPU 1080p RGB		
	CPU_2048x1080	41	CPU 2K		
	CPU_2048x1152	42	CPU QWXGA		
	CPU_1600x1200	43	CPU UXGA		
	CPU_1920x1200	44	CPU WUXGA		
	CPU_1792_1344	45	CPU 1792x1344		
	CPU_1856x1392	46	CPU 1856x1392		
	CPU_1920x1440	47	CPU 1920x1440		

	CPU_2560x1440 CPU_2048x1536 CPU_2560x1600 CPU_CVT CPU_GTF_5_4_RATIO CPU_GTF_4_3_RATIO CPU_GTF_16_10_RATIO CPU_GTF_15_9_RATIO CPU_GTF_16_9_RATIO	48 49 50 51 52 53 54 55 56	CPU WQHD CPU QXGA CPU WQXGA CPU CVT Timing CPU GTF Timing with 5/4 aspect ratio CPU GTF Timing with 4/3 aspect ratio CPU GTF Timing with 16/10 aspect ratio CPU GTF Timing with 15/9 aspect ratio CPU GTF Timing with 16/9 aspect ratio		
<b>ENUM_AUTOCENTER_REQUEST</b>	IDLE QUICK ADVANCE	0 1 2	All request have been executed Quick auto centering (Phase and Blankings, not pixels frequency) Advanced auto centering (pixel frequency, phase and blankings)	List of auto centering requests	1
<b>ENUM_LARGE_STILLS</b>	1 2 3 4 5 6 7 8	0 1 2 3 4 5 6 7	Frame 1 of Master Device Frame 2 of Master Device Frame 3 of Master Device Frame 4 of Master Device Frame 1 of Slave Device Frame 2 of Slave Device Frame 3 of Slave Device Frame 4 of Slave Device	Frames list	1
<b>ENUM_REDUCED_STILLS</b>	1 2 3 4 5 6 7 8	0 1 2 3 4 5 6 7	Logo 1 of Master Device Logo 2 of Master Device Logo 3 of Master Device Logo 4 of Master Device Logo 1 of Slave Device Logo 2 of Slave Device Logo 3 of Slave Device Logo 4 of Slave Device	Logos list	1
<b>ENUM_OUTPUT</b>	OUTPUT_1 OUTPUT_2 OUTPUT_3 OUTPUT_4 OUTPUT_5 OUTPUT_6 OUTPUT_7 OUTPUT_8	0 1 2 3 4 5 6 7	Output 1 of Master Device Output 2 of Master Device Output 3 of Master Device Output 4 of Master Device Output 1 of Slave Device Output 2 of Slave Device Output 3 of Slave Device Output 4 of Slave Device	Outputs list	1

ENUM_MONITORING_ELEMENT_SOURCES	IN_1	0	Input 1 of Master Device	Monitoring element sources	1
	IN_2	1	Input 2 of Master Device		
	IN_3	2	Input 3 of Master Device		
	IN_4	3	Input 4 of Master Device		
	IN_5	4	Input 5 of Master Device		
	IN_6	5	Input 6 of Master Device		
	IN_7	6	Input 7 of Master Device		
	IN_8	7	Input 8 of Master Device		
	IN_9	8	Input 9 of Master Device		
	IN_10	9	Input 10 of Master Device		
	IN_11	10	Input 11 of Master Device		
	IN_12	11	Input 12 of Master Device		
	IN_13	12	Input 1 of Slave Device		
	IN_14	13	Input 2 of Slave Device		
	IN_15	14	Input 3 of Slave Device		
	IN_16	15	Input 4 of Slave Device		
	IN_17	16	Input 5 of Slave Device		
	IN_18	17	Input 6 of Slave Device		
	IN_19	18	Input 7 of Slave Device		
	IN_20	19	Input 8 of Slave Device		
	IN_21	20	Input 9 of Slave Device		
	IN_22	21	Input 10 of Slave Device		
	IN_23	22	Input 11 of Slave Device		
	IN_24	23	Input 12 of Slave Device		
	ST_1	24	Frame 1 of Master Device		
	ST_2	25	Frame 2 of Master Device		
	ST_3	26	Frame 3 of Master Device		
	ST_4	27	Frame 4 of Master Device		
	ST_5	28	Frame 1 of Slave Device		
	ST_6	29	Frame 2 of Slave Device		
	ST_7	30	Frame 3 of Slave Device		
	ST_8	31	Frame 4 of Slave Device		
	rST_1	32	Logo 1 of Master Device		
	rST_2	33	Logo 2 of Master Device		
	rST_3	34	Logo 3 of Master Device		
	rST_4	35	Logo 4 of Master Device		
	rST_5	36	Logo 1 of Slave Device		
	rST_6	37	Logo 2 of Slave Device		
	rST_7	38	Logo 3 of Slave Device		
	rST_8	39	Logo 4 of Slave Device		
	S1	40	screen 1		
	S2	41	screen 2		
	S3	42	screen 3		
	S4	43	screen 4		
	S5	44	screen 5		
	S6	45	screen 6		
	S7	46	screen 7		
	S8	47	screen 8		

	P1	48	preview 1		
	P2	49	preview 2		
	P3	50	preview 3		
	P4	51	preview 4		
	P5	52	preview 5		
	P6	53	preview 6		
	P7	54	preview 7		
	P8	55	preview 8		
<b>ENUM_GPI</b>	1	0	General purpose input of master device	List of GPI	1
	2	1	General purpose input of slave device (dual ORX configuratiopn only)		
<b>ENUM_GPI_MODE</b>	FREE	0	Free GPI Mode	List of GPI modes	1
	TAKE	1	Take screen(s) GPI Mode		
<b>ENUM_GPO</b>	1	0	General purpose output 1 of master device	List of GPO	1
	2	1	General purpose output 2 of master device		
	3	2	General purpose output 3 of master device		
	4	3	General purpose output 4 of master device		
	5	4	General purpose output 5 of master device		
	6	5	General purpose output 1 of slave device (dual ORX configuration only)		
	7	6	General purpose output 2 of slave device (dual ORX configuration only)		
	8	7	General purpose output 3 of slave device (dual ORX configuration only)		
	9	8	General purpose output 4 of slave device (dual ORX configuration only)		
	10	9	General purpose output 5 of slave device (dual ORX configuration only)		
<b>ENUM_GPO_MODE</b>	FREE	0	Free GPO Mode	List of GPO modes	1
	TALLY_BEFORE_TRANSITION	1	Tally GPO Mode (gpo changes during take event)		
	TALLY_AFTER_TRANSITION	2	Tally GPO Mode (gpo changes after take event)		