

GeoBox Video wall processor

Main items	Functions	G-401	G-402	G-402Ex
General description		4 channel video wall controller for 4kx2k video wall display up to 15x15 LCD	4 channel video wall controller with preset display modes selected by DIP SW	4 channel video wall controller with preset display modes selected by DIP SW & IR control for advanced operation
Main function	Video processor	10-bits	10-bits	10-bits
	LCD display can be connected via one processor	4	4	4
	Unlimited cascade multiple units into big video wall display	Yes	--	Yes
	Video wall with portrait direction without rotating input source	--	Yes	Yes
	Video wall with PIP	--	Yes	Yes
	Support 4k/2k input without compression	Yes	Yes	Yes
	Preset modes selected by dip SW without keypad and remote controller	--	Yes	Yes
	Modular cascade like Lego	Yes	--	Yes
Input & Output	Video Input Ports	Two set of inputs, each set include 1x DP, 2x HDMI, 1x Dual LinkDVI-I	1x DisplayPort, 1x HDMI, 1x DVI-I (DVI-D, VGA, HDMI)	1x DisplayPort, 1x HDMI, 1x DVI-I (DVI-D, VGA, HDMI)
	Video Output	Two set of outputs, each set includes 2x HDMI outputs	4x HDMI outputs	4x HDMI outputs
	Audio Output	HDMI audio	HDMI audio	HDMI audio
	Support 4k/2k @30Hz, 1080p @120Hz, 2560x1600 / 3840x1080 @60Hz input with 4:4:4 sampling	Yes	Yes	Yes
	4k/2k image can be shared to multiple units for high resolution video wall display	Yes	--	Yes
	Output resolution for each LCD	Up to 2048x1080	1080p	1080p
	Frame Lock for synchronization in multiple units application.	Yes	Yes	Yes
	HDCP key for DVI/HDMI/DisplayPort	Yes	Yes	Yes
Image rotation	Image top/down flip	Yes	Yes	Yes
	4 output simultaneous 90/180/270 rotation, flip and mirror	--	--	Yes
Advanced Video Wall setting	3-4 LCD as one display unit	Yes	Yes	Yes
	Each display unit can be rotated at 90/180/270 degrees and mirrored in H/V directions. It adds more selections for display modes and is also necessary for cascade operation.	Only 180 top/down flip and mirror	--	Yes
	4K input source can be split into different FHD sections and assigned for each display unit to combine into one big video wall.	Yes	--	Yes
	Bezel compensation	Yes (up to 900 pixels in all directions)	Yes (preset value: H=1.5%, 2%, 3% V=2.67%, 3.56%, 5.33%)	Yes (preset value: H=1.5%, 2%, 3% V=2.67%, 3.56%, 5.33%)
	Image location in each display unit can be adjusted up to +_900 pixels in all directions for image position mapping.	Yes (among LCD)	--	Yes (among G-402Ex)
	2x2 video wall with top two TV at top/down flip position for easy bezel match	Yes	Yes	Yes
	Video wall with two different display contents	Yes	Yes	Yes
	2 TV at different portrait directions for bezel match	--	Yes	Yes
	To split 3840x2160 input source into 4 native full HD image without scaling for each LCD	Yes	--	--
Picture in Picture (PIP) and Picture outside Picture (POP)	PIP up to 1024x768 at selectable location with selectable aspect ratio and input source	--	8 locations & 4 image size selections	Flexible size and locations
	POP to show two image in one video wall with full screen or keep original aspect ratio	--	Yes	Yes
	High end 3D motion adaptive de-interlace in PIP/POP image	--	Yes	Yes
Video processing	10 bits 4:4:4 full sampling with 3D de-interlace, smooth edge algorithm and 3:2:2:2 film mode	Yes	Yes	Yes
	High quality video and graphics scaling up and scaling down	Yes	Yes	Yes
	Color adjustment (Hue, saturation, sharpness, contrast, brightness, preset modes, discrete RGB)	Yes	Yes	Yes
System control for easy use	Full function IR Remote controller	Yes	--	Yes
	Cabled IR Receiver Extender (up to 20 meters)	--	--	Yes
	Ethernet control and operation via LAN or WiFi (NB, iPad, Smart phone)	--	Need to add external Ethernet to UART	Need to add external Ethernet to UART
	Video wall setting by DIP SW	--	Yes	Yes
Dimension & weight	Only Box body, not including remote controller, power supply and packing	303x155x55mm, 1.8kg	303x160x35mm, 1.3kg	303x160x35mm, 1.3kg