

Which keyer or picture scaler do you need?

	Indigo SYSTEM			Vision SYSTEM		Indigo SYSTEM					Vision SYSTEM
	Safire 3	Safire 3 Xpress	LKEY 3	M-KEY	M-WEBKEY	MultiLogo V132	MultiLogo V132 8G	MultiLogo V432	MultiLogo V432 8G	LKEY-SQZ	M-PIP
Frame system	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Vision (3U)	Vision (3U)	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Vision (3U)
Product type	Card	Card	Card	Software app	Software app	Card	Card	Card	Card	Card	Software app
Main use	Chroma keyer	Chroma keyer	Linear keyer	Linear keyer	Web page keyer	Logo keyer with internal storage for 250 graphics	Logo keyer with internal storage for 500 graphics	Logo keyer with internal storage for 250 graphics	Logo keyer with internal storage for 500 graphics	Squeeze back keyer or picture-in-picture device	Picture-in-picture device
Works with SDI	●	●	●	●	●	●	●	●	●	●	●
Works with IP (ST 2022-6, ST 2022-7, ST 2110-10, ST 2110-20 and ST 2110-21)				●	●						●
Supports 31 video formats (625i, 525i, 720p50, 720p59.94, 720p60, 1080i50, 1080i59.94, 1080i60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94, 1080p60, 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30, 2048x1080p23.98, 2048x1080p24, 2048x1080p25, 2048x1080p29.97, 2048x1080p30, 2048x1080PsF23.98, 2048x1080PsF24, 2048x1080PsF25, 2048x1080PsF29.97 and 2048x1080PsF30)				●	●						●
Supports 25 video formats (625i, 525i, 720p23.98, 720p24, 720p25, 720p29.97, 720p30, 720p50, 720p59.94, 720p60, 1035i59.94, 1035i60, 1080PsF23.98, 1080PsF24, 1080i50, 1080i59.94, 1080i60, 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p50, 1080p59.94 and 1080p60)	●	●	●							●	
Supports 6 video formats (625i, 525i, 720p50, 720p59.94, 1080i50, 1080i59.94)						●	●	●	●		
SDI inputs can be mixture of HD and SD											●
Inputs and outputs can be any mixture of SDI and IP				●	●						●
Inputs and outputs can be mixture of ST 2022 and ST 2110				●	●						●
Includes IP gateway functionality (IP to SDI or SDI to IP)				●	●						●
Includes IP to IP translation functionality (network address translation, unicast to multicast address translation, setting firewall restrictions etc.)				●	●						●
Number of video inputs	3 (Foreground, Background, External key)	3 (Foreground, Background, External key)	3 (Foreground, Background, External key)	3	1	1	1	4	4	3 (Video A, Squeeze Video, Key/Video B)	3
Number of video outputs	2 (1 main and 1 auxiliary)	2 (1 main and 1 auxiliary)	2 (1 main and 1 auxiliary)	2	2	2 (Program and Preview)	2 (Program and Preview)	2 (Program and Preview)	2 (Program and Preview)	2 (1 main and 1 auxiliary)	2
Chroma key (real-time)	●	●									
Linear or self key internally-sourced graphics over source (DRAM internal graphics storage, backed up to Flash)						● (4 GB for 250 graphics)	● (8 GB for 500 graphics)	● (4 GB for 250 graphics)	● (8 GB for 500 graphics)		
Linear or self key graphics from external graphics machine/graphics PC	●	●	●	●				●	●	●	
Linear key graphics from web page located on web server or inside Vision frame					●						
Number of keyers	2 (chroma and linear/self)	2 (chroma and linear/self)	1	1	1	3	3	3	3	1	
Fades	●	●	●	●	●	●	●	●	●	●	●
Masks	● (can also be used to provide simple manual wipe)	● (can also be used to provide simple manual wipe)	● (can also be used to provide simple manual wipe)	●	●	●	●	●	●	●	●
Simple DVE with horizontal and vertical picture resizing and repositioning, with ability to perform sequence of operations using timeline control										●	
Picture-in-picture boxes										1 box (stays in place or moves location)	2 boxes (stay in place)
Foreground colour correction (RGB lift and gain)	●										
Record sections of live feeds, with trimming						●	●	●	●		
Generate simple text						●	●	●	●		
Look ahead preview						●	●	●	●		
	Safire 3	Safire 3 Xpress	LKEY 3	M-KEY	M-WEBKEY	MultiLogo V132	MultiLogo V132 8G	MultiLogo V432	MultiLogo V432 8G	LKEY-SQZ	M-PIP
Quad split with zoom to assist setup (view Output video, Output key, Keyed foreground and Keyed background simultaneously)				●	●						
Video delay (additional user delay, adjustable in one frame steps)	Up to ten frames on input		Up to ten frames on input	Up to ten frames on both input and output	Up to ten frames on both input and output						Up to ten frames on both input and output
Synchronisers	Frame synchroniser on each input	Frame synchroniser on each input	Frame synchroniser on each input	Frame synchroniser on each flow	Frame synchroniser on input	One line TBC	One line TBC	One line TBC	One line TBC	Line synchroniser on each input	Frame synchroniser on each flow
Reference timing	From Foreground, Background or Key input or from SD Black and Burst or HD tri-level syncs	From Foreground, Background or Key input or from SD Black and Burst or HD tri-level syncs	From Foreground, Background or Key input or from SD Black and Burst or HD tri-level syncs	From any SDI input, or from Vision frame dual references (SD Black & Burst or HD tri-level syncs) or PTP, with reference redundancy and user options for timing source priority	From SDI input, or from Vision frame dual references (SD Black & Burst or HD tri-level syncs) or PTP, with reference redundancy and user options for timing source priority	From input 1 or from SD Black and Burst or HD tri-level syncs	From input 1 or from SD Black and Burst or HD tri-level syncs	From input 1 or from SD Black and Burst or HD tri-level syncs	From input 1 or from SD Black and Burst or HD tri-level syncs	From Video A, Squeeze Video or Key/Video B input, or from SD Black and Burst or HD tri-level syncs	From any SDI input, or from Vision frame dual references (SD Black & Burst or HD tri-level syncs) or PTP, with reference redundancy and user options for timing source priority
Output embedded audio	From any chosen input	From any chosen input	From any chosen input	From any chosen input (when SDI or ST 2022 – no audio or data in ST 2110-20)	From video input (when SDI or ST 2022 – no audio or data in ST 2110-20)	From video input or audio store	From video input or audio store	From selected video input (1-4), Program/Preview bus, audio store or external AES input	From selected video input (1-4), Program/Preview bus, audio store or external AES input	From any chosen input	From any chosen input (when SDI or ST 2022 – no audio or data in ST 2110-20)
Cross-fade audio between video inputs								●	●		
Audio mixing						●	●	●	●		
Mix in audio clips (voiceovers, sound effects)						From audio store	From audio store	From audio store or external AES input	From audio store or external AES input		
AES outputs for audio monitoring								●	●		
Internal test pattern generator (with 13 test patterns)				●	●						●
SDI signal checks	(foreground present and format, background present and format, key present and format, output video format and status, foreground black/frozen/ATC present, background black/frozen/ATC present, key black/frozen/ATC present, chroma key status, self key status, external key status, masks status)	(foreground present and format, background present and format, key present and format, output video format and status, foreground black/frozen/ATC present, background black/frozen/ATC present, key black/frozen/ATC present, chroma key status, self key status, external key status, masks status)	(foreground present and format, background present and format, key present and format, output video format and status, foreground black/frozen/ATC present, background black/frozen/ATC present, key black/frozen/ATC present, chroma key status, self key status, external key status, masks status)	(video present and time present, video format, video black, video frozen, video error, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present)	(video present and time present, video format, video black, video frozen, video error, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present)	(input present, AES input present, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present, key 1 status, key 2 status, key 3 status)	(input present, AES input present, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present, key 1 status, key 2 status, key 3 status)	(input 1 present, input 2 present, input 3 present, input 4 present, AES input present, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present, key 1 status, key 2 status, key 3 status)	(input 1 present, input 2 present, input 3 present, input 4 present, AES input present, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present, key 1 status, key 2 status, key 3 status)	(squeeze input present and format, video A present and format, key/mask/video B present and format, output video format and status, squeeze input black/frozen/timed, video A black/frozen/timed, key/mask/video B black/frozen/timed, key fades status, external and self keys status, masks status)	(video present and time present, video format, video black, video frozen, video error, audio group 1 present, audio group 2 present, audio group 3 present, audio group 4 present)
IP signal checks				(network error, packet loss, duplicated packets, packet delay variation, count of packets ignored by app, ignored multicast packets)	(network error, packet loss, duplicated packets, packet delay variation, count of packets ignored by app, ignored multicast packets)						(network error, packet loss, duplicated packets, packet delay variation, count of packets ignored by app, ignored multicast packets)
Reference signal checks	(reference present and format)	(reference present and format)	(reference present and format)	(reference 1 and 2 present and time present, reference 1 and 2 format, PTP master and backup clock present and time present, PTP statistics – network delay, delay variation, reference offset and sync period)	(reference 1 and 2 present and time present, reference 1 and 2 format, PTP master and backup clock present and time present, PTP statistics – network delay, delay variation, reference offset and sync period)	(reference present)	(reference present)	(reference present)	(reference present)	(reference present and format)	(reference 1 and 2 present and time present, reference 1 and 2 format, PTP master and backup clock present and time present, PTP statistics – network delay, delay variation, reference offset and sync period)
Number of presets	40	5	40	16	16	256, with partial presets and preset import/export	256, with partial presets and preset import/export	256, with partial presets and preset import/export	256, with partial presets and preset import/export	40	16
SNMP control	Available for purchase	Available for purchase	Available for purchase	Complimentary	Complimentary	Available for purchase	Available for purchase	Available for purchase	Available for purchase	Available for purchase	Complimentary
GPI inputs and outputs	6 GPI inputs	4 GPI inputs	6 GPI inputs			4 GPI inputs and 1 GPI output – plus additional 8 GPI inputs and 8 GPI outputs if ML-GPI8 fitted	4 GPI inputs and 1 GPI output – plus additional 8 GPI inputs and 8 GPI outputs if ML-GPI8 fitted	8 GPI inputs and 3 GPI outputs	8 GPI inputs and 3 GPI outputs	6 GPI inputs	
Relay bypass protection	● (RM73 option)	● (RM73 option)	● (RM73 option)							● (as standard)	
Products in 2U (max)	12	12	12			12	12	6	6	6	
Products in 3U (max)				10	10						10
	Safire 3	Safire 3 Xpress	LKEY 3	M-KEY	M-WEBKEY	MultiLogo V132	MultiLogo V132 8G	MultiLogo V432	MultiLogo V432 8G	LKEY-SQZ	M-PIP