

Which synchroniser do you need?

	Indigo SYSTEM		Vision SYSTEM	Indigo SYSTEM
	SYN 3G	SYN-A 3G	SYNNER-VF	SYNNER 310
Frame system	Indigo (2U, 1U, DTB)	Indigo (2U, 1U, DTB)	Vision (3U)	Indigo (2U, 1U, DTB)
Product type	Card	Card	Card	Card
Input formats	625i, 525i, 720p50, 720p59.94, 1080i50, 1080i59.94, 1080p50, 1080p59.94	625i, 525i, 720p50, 720p59.94, 1080i50, 1080i59.94, 1080p50, 1080p59.94	625i, 525i, 720p50, 720p59.94, 1080i50, 1080i59.94, 1080p50, 1080p59.94, 1080PsF23.98, 1080PsF24	625i, 525i, 720p50, 720p59.94, 1080i50, 1080i59.94, 1080p50, 1080p59.94, 1080PsF23.98, 1080PsF24
Use as synchroniser or delay line	●	●	●	●
Minimum video delay	220us	220us (resampling and Dolby alignment off); 3ms (resampling on); 0.5 frames (Dolby alignment on)	< 1 line	1 line
Full vertical and horizontal adjustment up to one frame	●	●	●	●
Additional video delays	1, 2 or 3 frames additional user delay	1, 2 or 3 frames additional user delay	Up to 10 frames additional user delay in one frame steps, 0.5 frames for Dolby E align	Up to 10 frames additional user delay in one frame steps, 0.5 frames for Dolby E align
Number of video outputs (max)	4	4	3	2
Reference timing	From SDI input or from SD Black and Burst or HD tri-level syncs	From SDI input or from SD Black and Burst or HD tri-level syncs	From SDI input or from Vision frame dual references (SD Black & Burst or HD tri-level syncs) with reference redundancy	From SDI input or from SD Black and Burst or HD tri-level syncs (with reference loop on RM70)
Manual/automatic freeze	●	●	●	●
Use with embedded audio sources	If input/output frame rate locked together	●	●	●
Number of audio groups processed	4	4	4	4
Embed/de-embed digital audio			●	●
Embed/de-embed analogue audio			●	●
Number of external audio I/O channels available for embedding/de-embedding			AES: 8 stereo pairs Analogue audio: 8 mono	AES: 8 stereo pairs Analogue audio: 8 mono
Uses piggybacks			2 (DIOP4, 3G-AIP2, 3G-AOP2)	2 (DIOP4, 3G-AIP2, 3G-AOP2)
Audio routing		8 x 8 stereo router	Mono routers auto configured according to options fitted	Mono routers auto configured according to options fitted
Synchronise mix of Dolby E and AES		●	●	●
Dolby E alignment		●	●	●
Tracking audio delay		●	●	●
Audio delays (on top of tracking)		Linear AES: 120ms; Dolby E: 0-3 frames	Linear AES: 1 to 10 frames fixed delay, 400ms; Dolby E: 0-1 frame, 36 samples	Linear AES: 1 to 10 frames fixed delay, 400ms; Dolby E: 0-1 frame, 36 samples
Audio resampling		●	●	●
Audio processing (gain, stereo to mono)			●	●
Video proc-amp (RGB and YUV lift and gain)	●	●	●	●
AFD insertion		●		
Comprehensive signal monitoring (see product brochures for full details)	●	●	●	●
SNMP control	Available to purchase	Available to purchase	Complimentary	Available to purchase
Relay bypass protection	● (RM67 option)	● (RM67 option)		
Fibre I/O	● (FIP, FOP)	● (FIP, FOP)	● (FIP-VF, FOP-VF, FIO-VF)	● (FIP, FOP, FIO)
Frame slots used	1	1	1 or 2, depending on rear module	1 or 2, depending on rear module
Synchronisers in frame (max)	12 in 2U	12 in 2U	20 in 3U (10 with VR13)	12 in 2U (6 with RM61, RM70 and RM74)