


Which synchroniser do you need?

	SYN 3G	SYN-A 3G	SYNNER 310
Input formats (50Hz and 59.94Hz where unspecified)	1080p, 720p, 1080i, 625i, 525i	1080p, 720p, 1080i, 625i, 525i	1080p, 1080PsF24, 1080PsF23.98, 720p, 1080i, 625i, 525i
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
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
Number of video outputs (max)	4	4	2
Analogue reference (SD Black & Burst or HD tri-level syncs)	●	●	● (loop with RM70)
Manual/automatic freeze	●	●	●
Use with embedded audio sources	If input/output frame rate locked together	●	●
Number of audio groups processed	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 (4 groups) Analogue audio: 8 mono (2 groups)
Uses piggybacks			2 (DIOP4, 3G-AIP2, 3G-AOP2)
Audio routing		8 x 8 stereo router	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, 40 samples
Audio resampling		●	●
Audio processing (gain, stereo to mono)			●
Video proc-amp (RGB and YUV lift and gain)	●	●	●
AFD insertion		●	
Relay bypass protection	●	●	
Fibre I/O	●	●	●
Min frame slots used (depends on rear module)	1	1	1