



Which synchroniser do you need?

| |  | | |  |
|--|---|--|--|--|
| | SYN 3G | SYN-A 3G | SYNNER 310 | SYNNER-VF |
| Frame system | Indigo (2U, 1U, DTB) | Indigo (2U, 1U, DTB) | Indigo (2U, 1U, DTB) | Vision (3U) |
| Product type | Card | Card | Card | Card |
| 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 | 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 | < 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 | 2 | 3 |
| Analogue references (SD Black & Burst or HD tri-level syncs) | 1 | 1 | 1 (loop with RM70) | 2 |
| Reference redundancy with ten user options for timing source priority | | | | ● |
| 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 | | ● | | |
| Relay bypass protection | ● | ● | | |
| Fibre I/O | ● (FIP, FOP) | ● (FIP, FOP) | ● (FIP, FOP, FIO) | ● (FIP-VF, FOP-VF, FIO-VF) |
| SNMP control | Available to purchase | Available to purchase | Available to purchase | Complimentary |
| Min frame slots used (depends on rear module) | 1 | 1 | 1 | 1 |