

TV CLOCK GENERATOR IN SD, HD AND 4K FORMATS



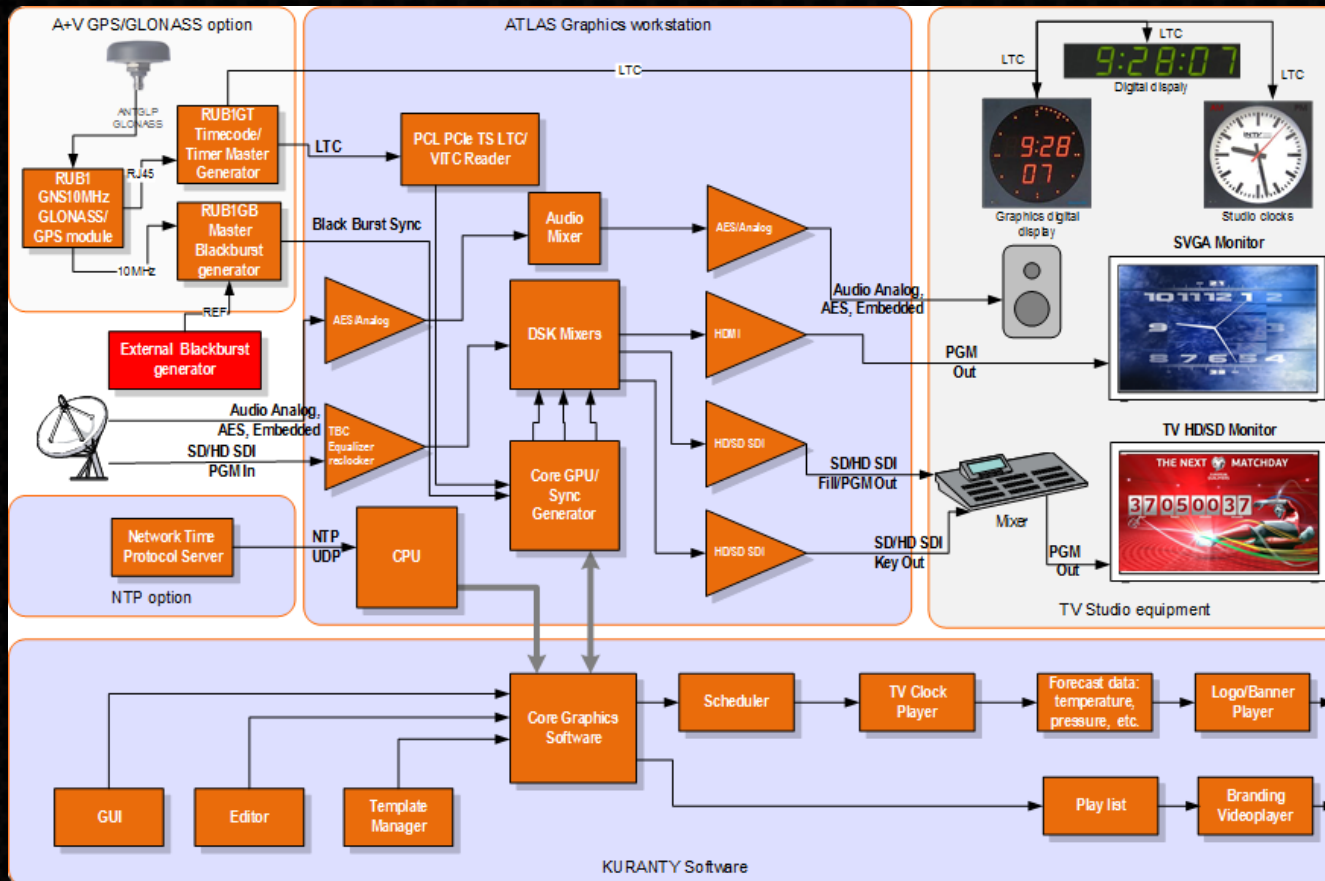
MAIN CAPABILITIES

- Real-time TV clocks graphics rendering.
- Time code synchronization to GLONASS and GPS reference signals, NTP for synchronization over network.
- LTC and VITC input interfaces.
- Slim case RACK 2U.
- Creating, editing and playback of main clock types: analog and digital. Possibility of selecting time zone and manual time shifting of PC clock for reference compensation.
- Possibility of using in one clocks composition several clocks templates, adjusted to different time zones.
- Schedule of TV clock compositions.
- «Calendar» function: data output on [DD:MM:YY] format.
- Playback of full screen background, synchronized with sound.
- Possibility of using external video mixing (Fill&Key signals) and internal video mixing («transit»).
- SD, HD and 4K formats.

SPECIFICATION

- Graphics workstation «ATLAS».
- Basic software «KURANTY»: creating and playback on air multilayer TV clocks graphics compositions, synchronized to GLONASS and GPS signals.
- Embedded DSK keyer for superimposing clocks templates to PGM signal.
- Player of clocks templates on schedule (option).
- On-screen preview of clocks composition. Demo mode.
- Graphics demo library: arrows, clock faces, background, sound.
- Indication of CPU loading.
- Countdown timer in format [DD:HH:MM:SS] (option).
- Banners player (option).
- EXPRESS-VIDEO - player of branding or alarm video clips on second channel (option).
- Time code reader.
- Master Time Code generator (option).

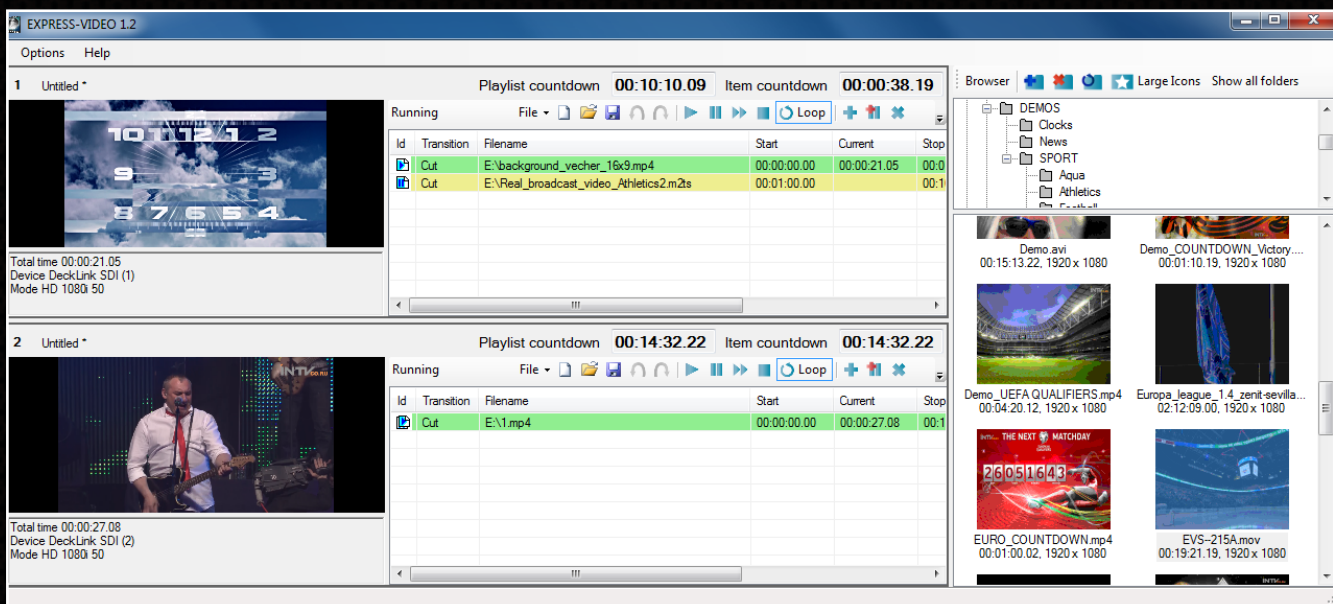
KURANTY WORKSTATION STRUCTURE



KURANTY: TV clock generator



EXPRESS-VIDEO: player of branding video clips (second channel)



TECHNICAL SPECIFICATION

Graphics workstation «ATLAS»: Windows 7 Pro 64-bit / Intel Core i7 / RAM16Gb / 2xHDD (System, RAID 1), 2xHDD (Graphics, RAID 0) / RJ45 1GbE / Interfaces - GPI, LTC, NTP / Hot Swap PSU.

Video interfaces: BM DeckLink 4K Extreme | BM UltraStudio 4K | Matrox | AJA for connection to Air studio and OBVan. Graphics output in the TV standard (Fill&Key signals).

Supported standards: SD - 625/50 | HD - 720/50p, 720/60p, 1080/25p, 1080/50i, 1080/50p | 4K (4x1080/50p).

Input video signals. PGM In: SD-SDI - SMPTE 259M, HD-SDI - SMPTE 292M, Sync Black Burst PAL, Tri-Level Sync.

Output video signals. Fill, Key, PGM Out: 2 SD/HD-SDI - SMPTE 259M or 292M, HDMI.

Audio interfaces: Analog balanced (XLR) and digital (Embedded, AES) stereo - input and output.

Time code: LTC, VITC and NTP inputs.

Dimensions: 4RU 440 x 176 x 500, 20 kg.
2RU 440 x 88 x 710, 25 kg.

EXAMPLES



Example №1.

TV clock project.
Analog and digital clocks.
Animated background.
Synchronized sound.
HD format.



Example №2.

Analog TV clock.
Static background.
Synchronized sound.
HD format.

REAL USERS OF KURANTY STATION



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