



# CONFIGURATION OF THE CARS SNGS

VERSION 01

## SNG - SINGLE

### SIGNAL CONTRIBUTION AND RECEPTION - UPLINK AND DOWNLINK

#### Redundant system:

- 2 Ateame CM5000 or NTT HVE-9100 Encoders;
- 2 Newtec AZ110 or M6100 Modulators;
- 2 Advantech or Xicom 400-Watts Indoor HPAs;
- 2 Ateame DR5000 or Upcom IRDs.

#### Technical configuration:

- Standard: DVB-S and DVB-S2;
- Modulation: QPSK; 8PSK and 16APSK;
- Roll-off: 5%-35%;
- Encryption: BISS;
- Video format, encoding and compression: HEVC (H.265), MPEG-4, MPEG-2, SD, HD SD, and 4:2:0, 4:2:2;
- Audio Codec: 16, 20 and 24 bits;
- Dolby, dual mono or stereo;
- 2.4 m Antenna;
- Linear or circular C-band and Ku-band feeder.

#### Electricity:

- 2 inputs for different power sources (starter and back up);
- 1 Cummins integrated generator with 8 KVAs of power to be used in case of loss of the main generator (external, usually hired by the client);
- 2 No-break UPSs of 6 KVAs each;
- Single-phase power input system (220V).

#### Integration:

- Refrigeration system with 2 machines;
- Manual hydraulic skidding system.

## SNG - DOUBLE

### SIGNAL CONTRIBUTION AND RECEPTION - UPLINK AND DOWNLINK

#### Redundant system:

- 4 Ateame CM5000 or NTT HVE-9100 Encoders;
- 4 Newtec AZ110 or M6100 Modulators;
- 2 Advantech or Xicom 400-Watts Indoor HPAs;
- 2 Advantech or Xicom 400-Watts Outdoor HPAs;
- 2 Ateame DR5000 or Upcom IRDs.

#### Technical configuration:

- Standard: DVB-S and DVB-S2
- Modulation: QPSK; 8PSK and 16APSK;
- Roll-off: 5%-35%;
- Encryption: BISS;
- Video format, encoding and compression: HEVC (H.265), MPEG-4, MPEG-2, SD, HD SD, and 4:2:0, 4:2:2;
- Audio Codec: 16, 20 and 24 bits;
- Dolby, dual mono or stereo;
- 2.40-Meter Electric/Manual on Top Antenna;
- 2.40-Meter Fly way on Board Antenna;
- 2 Linear or Circular Feeders in C and Ku band.

#### Electricity:

- 4 inputs for different power sources (starter and back up);
- 1 Cummins integrated generator with 12 KVAs of power to be used in case of loss of the main generator (external, usually hired by the client);
- 4 No-break UPSs of 6 KVAs each;
- Single-phase power input system (220V).

#### Integration:

- Refrigeration system with 2 machines;
- Manual hydraulic skidding system.

## HYBRID SNG – MODEL I

### SIGNAL CONTRIBUTION AND RECEPTION - UPLINK AND DOWNLINK PRODUCTION + SNG (WITH 1 OR 2 CAMERAS)

#### Redundant system:

- 2 Ateame CM5000 or NTT HVE-g100 Encoders;
- 2 Newtec AZ110 or M6100 Modulators;
- 2 Advantech or Xicom 400-Watts Indoor HPAs;
- 2 Ateame DR5000 or Upcom IRDs.

#### Technical configuration:

- Standard: DVB-S and DVB-S2;
- Modulation: QPSK; 8PSK and 16APSK;
- Roll-off: 5%-35%;
- Encryption: BISS;
- Video format, encoding and compression: HEVC (H.265), MPEG-4, MPEG-2, SD, HD SD, and 4:2:0, 4:2:2;
- Audio Codec: 16, 20 and 24 bits;
- Dolby, dual mono or stereo;
- 2.4 m Antenna;
- Linear or circular feeder.

#### Electricity:

- 2 inputs for different power sources (starter and back up);
- 1 Cummins integrated generator with 8 KVAs of power to be used in case of loss of the main generator (external, usually hired by the client);
- 2 No-break UPSs of 6 KVAs each;
- Single-phase power input system (220V).
- 1 or 2 HD cameras;
- 2 Frame Synchronizers;
- Decks XDCAM (47(2 cam), 30 and 33 (1cam), 38, 36);
- HD/SD Monitoring;
- Patch and Routing switcher on 100% of the system.

#### Audio

- Audio Mixers (30, 33, 31) - 12 inputs; with analog inputs;
- Lectrosonic or Sennheiser Reporter System;
- Lectrosonic IFB return.

#### Communication

- 02 Hybrid ones;
- Communication to IFB reporter.

## HYBRID MOBILE UNIT

### SIGNAL CONTRIBUTION AND RECEPTION - UPLINK AND DOWNLINK

#### **Sistema redundante:**

Redundant system:

- 2 Ateame CM5000 or NTT HVE-g100 Encoders;
- 2 Newtec AZ110 or M6100 Modulators;
- 2 Advantech or Xicom 400-Watts Indoor HPAs;
- 2 Ateame DR5000 or Upcom IRDs.

#### **Technical configuration:**

- Standard: DVB-S and DVB-S2;
- Modulation: QPSK; 8PSK and 16APSK;
- Roll-off: 5%-35%;
- Encryption: BISS;
- Video format, encoding and compression: HEVC (H.265), MPEG-4, MPEG-2, SD, HD SD, and 4:2:0, 4:2:2;
- Audio Codec: 16, 20 and 24 bits;
- Dolby, dual mono or stereo;
- 2.4 m Antenna;
- Linear or circular C-band and Ku-band feeder.

#### **Electricity:**

- 2 inputs for different power sources (starter and back up);
- 1 Cummins integrated generator with 8 KVAs of power to be used in case of loss of the main generator (external, usually hired by the client);
- 2 No-break UPSs of 6 KVAs each;
- Single-phase power input system (220V).
- 5 HD cameras;
- 2 22x lenses;
- 3 20x lenses;
- 1 14x ga lens;
- 2 HD/3G micro cameras;
- 1 HD waveform.

#### **System:**

- 1 switcher – 12 channels;
- 1 video matrix 16x16;
- 1 replay system – 6 channels;
- 2 inputs – frames;
- 1 sync generator;
- 1 multi viewer by;

- 2 frames (converter);
- 1 recorder;
- 4 updown cross cards;
- video distributors integrated into the system;
- technical monitor.

**Audio:**

- 1 mixer;
- 1 mixer (by);
- 24 audio inputs;
- 4 return kits;
- 6 microphones;
- 10 microphones (ambient).

**Cabin:**

- 2 consoles;
- 4 headsets;
- 4 17" monitors;
- 4 world view leds (600 leds).

**Communication:**

- 1 matrix;
- 1 communication module;
- 6 panels (coord/dtv/audio/video/technical/replay);
- 4 hybrids;
- 4 chip cells;
- 6 belt packs.