

TV5MONDE EUROPE HD

satellite	ASTRA 1L
Position	19,2° Est
TP	22
Uplink	Sainte Assise
Modulation	QPSK
Frequency	11.538
Polarity	Vertical
Symbol Rate	22000
FEC	5/6
Standard	DVB-S
Service bitrate	6,5 Mbps
Video codec	H264
Resolution	1080i25 (HD)
Encryption	NO
SID	6915
PMT	655 new descriptors
PCR	615
VIDEO	615 new descriptors

TV5MONDE EUROPE HD ON ASTRA 1Lp

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1. New parameters

Please first check the reception and DVB parameters in the satellite technical specifications sheet as attached in appendix A.

2. Date

Switching to HD feed is will occur **January 12, 2021 at 09:00a.m. GMT.**

Please keep in mind that this date may change, so please keep in contact with your local agent for updates.

3. No dual illumination

There will be **no dual illumination**. Swapping to the HD feed will occur **instantly** on the existing feed.

4. No HD logo

The logo of the channel will not change, **no mention of HD will appear.**

5. Satellite dish & L band paths

As the satellite, position, transponder, modulation, frequency and polarity are all remaining the same, there is no modification to anticipate on your satellite dish and RF paths.

6. Receiver(s)

There are no modifications to report on your tuner settings: standard (DVB-S), frequency, modulation, symbol rate and FEC will remain the same.

For all the cases were your IRD (Integrated Receiver/Decoder) is used for tuning and also:

- **Decoding on SDI** output(s),
- **Transrating**,
- **Upscale/Downscaling**,
- **Transcoding**,
- **Subtitles burning** over SDI or TS over IP/ASI,

Then:

- Make sur your model or hardware **supports H264** and **HD decoding**,
- Ensure that you have all **updates** and or **licenses** required for HD and H264 decoding, transrating, transcoding and/or subtitle burning.

7. SD current Bitrates

Existing bitrate is 4,5 Mbps for the service including video, audio, teletext and bitmap subtitles.

	Bitrates (Mbps) EUROPE SD
VIDEO	3,200
AUDIO	0,205
S/T TXT FRA ENG	0,077
S/T DVB FRA	0,128
S/T DVB ENG	0,128
S/T DVB SPA	0,128
S/T DVB DUT	0,128
S/T DVB RUM	0,128
S/T DVB RUS	0,128
S/T DVB DEU	0,128
	4,378

8. HD new bitrates

Please take note of the new video bitrate of **5.1 Mbps** (full service will be **6.5 Mbps**):

	Bitrates (Mbps) TV5MONDE EUROPE HD
VIDEO	5,100
AUDIO	0,205
S/T TXT FRA ENG	0,077
S/T DVB FRA	0,160
S/T DVB ENG	0,160
S/T DVB SPA	0,160
S/T DVB DUT	0,160
S/T DVB RUM	0,160
S/T DVB RUS	0,160
S/T DVB DEU	0,160
	6,502

PS: Also, note that your payload will be under 6.5 Mbps as you are redistributing only one or two subtitle(s) track(s).

9. Distribution & multi format processing (MFP)

Current video codec is MPEG2. The new codec will be **H264**:

- Please ensure that your transraters and/or transcoders and hardware will **support H264** and **HD**,
- Check if any **update** or **license** is needed for HD and H264 decoding, transrating, transcoding and/or subtitle burning.

10. Muxing, resolution & Descriptors

All PID (Packet Identifier) will remain the same. This said, PMT & VPID descriptors will change as:

- Resolution was 576i25 (720x576), it becomes 1080i25 (1920x1080) ;
- Video codec was MPEG2, it becomes H264.

Should you remux, or “groom”, our service for a DVB-T, DVB-S or DVB-C distribution, we believe you should anticipate checking on your multiplexer as the descriptor inside the incoming stream may need to be refreshed for a correct pass-through / remux / grooming.

11. Appendix A – Satellite data sheet

Technical parameters TV5MONDE EUROPE - Swapping from SD to HD ASTRA 1L

Satellite Astra 1L
Position 19.2° Est
TP 22
Uplink Sainte Assise



Decoding

Modulation QPSK
Frequency 11.538
Polarity Verticale
Symbol Rate 22000
FEC 5/6
Standard DVB-S

Service map (PIDs)

	Existing	12/01/2021 - 09:00 GMT *
Service name	TV5MONDE EUROPE	TV5MONDE EUROPE HD
Service bitrate	4,5 Mbps	6,5 Mbps
Video codec	MPEG2	H264
Resolution	576i25 (SD)	1080i25 (HD)
Encryption	NO	NO
		<small>≡ check all updates, date to be confirmed</small>
SID	6915	6915
PMT	665	665 new descriptors
PCR	615	615
VIDEO	615	615 new descriptors
AUDIO (MPEG1-LII, fr)	635	635
TXT subs French	835 (page 891)	835 (page 891)
TXT subs English	835 (page 892)	835 (page 892)
DVB subs Russian	935	935
DVB subs English	936	936
DVB subs German	937	937
DVB subs Dutch	938	938
DVB subs Spanish	939	939
DVB subs Romanian	940	940
DVB subs French	942	942

DVB-Sub bitmap according to ETSI EN 300 743