

Line Levels

V_{rms}	dBu0s ITU-T J.26
12.277	24
10.941	23
9.752	22
8.691	21
7.746	20
6.904	19
6.153	18
5.484	17
4.887	16
4.356	15
3.882	14
3.460	13
3.084	12
2.748	11
2.449	10
2.183	9
1.946	8
1.734	7
1.546	6
1.377	5
1.228	4
1.094	3
0.975	2
0.869	1
0.775	0
0.690	-1
0.615	-2
0.548	-3
0.489	-4
0.436	-5
0.388	-6
0.346	-7
0.308	-8
0.275	-9
0.245	-10
0.218	-11
0.195	-12
0.173	-13
0.155	-14
0.138	-15
0.123	-16
0.109	-17
0.098	-18
0.087	-19
0.078	-20
0.069	-21
0.062	-22
0.055	-23
0.049	-24

PPM IEC 286-10 IIa	VU IEC 268-17	DPM IEC 268-18 EBU R68	DPM IEC 268-18 SMPTE RP 155
	24	0	0
	23	-1	-1
	22	-2	-2
	21	-3	-3
	20	-4	-4
	19	-5	-5
	18	-6	-6
	17	-7	-7
	16	-8	-8
	15	-9	-9
	14	-10	-10
	13	-11	-11
7	12	-12	-12
	11	-13	-13
	10	-14	-14
	9	-15	-15
6	8	-16	-16
	7	-17	-17
	6	-18	-18
	5	-19	-19
5	4	-20	-20
	3	-21	-21
	2	-22	-22
	1	-23	-23
4	0	-24	-24
	-1	-25	-25
	-2	-26	-26
	-3	-27	-27
3	-4	-28	-28
	-5	-29	-29
	-6	-30	-30
	-7	-31	-31
2	-8	-32	-32
	-9	-33	-33
	-10	-34	-34
	-11	-35	-35
1	-12	-36	-36
	-13	-37	-37
	-14	-38	-38
	-15	-39	-39
	-16	-40	-40
	-17	-41	-41
	-18	-42	-42
	-19	-43	-43
	-20	-44	-44
	-21	-45	-45
	-22	-46	-46
	-23	-47	-47
	-24	-48	-48

+ 0 dBrs + 4 dBrs

dBFS dBFS

PMS
AS
MS

Permitted Maximum Signal (PMS) level = Alignment Signal (AS) level + 9 dB

Measurement Signal (MS) level = Alignment Signal (AS) level - 12 dB

Signal level (dBu) = Normalized signal level (dBu0s) + Normalizing factor (dBrs)

Example 1: 0 dBu = 0 dBu0s + 0 dBrs (VU attenuator level = 0 dB)

Example 2: +2 dBu = 0 dBu0s + 2 dBrs (VU attenuator level = 2 dB)

Example 3: +4 dBu = 0 dBu0s + 4 dBrs (VU attenuator level = 4 dB)

Example 4: +8 dBu = 0 dBu0s + 8 dBrs (VU attenuator level = 8 dB)

NOTE: the dBrs value is determined by the circuit gain or loss.