

Specifications — DVS 204 Series Digital Video Scalers

Video input

Number/signal type	1 (RGBHV, RGBS, RGsB) pass-through, RGBS, RGBcvS 1 composite video, S-video, component video (Y, R-Y, B-Y) 1 S-video, 1 SDI (optional, DVS 204D only) 1 composite video
Connectors	(1) 15-pin HD female RGB pass-through, RGBS, RGBcvS 3 BNC female component video, S-video, composite video 1 BNC female SDI (DVS 204D, DVS 204D 12 V only) (1) 4-pin mini DIN female S-video 1 BNC female composite video
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels	Analog: 0.0 V to 1.0 Vp-p with no offset
Impedance	75 ohms
Horizontal frequency	NTSC 3.58, NTSC 4.43, PAL, SECAM
Vertical frequency	NTSC 3.58, NTSC 4.43, PAL, SECAM
Resolution range	NTSC 3.58, NTSC 4.43, PAL, SECAM
Return loss	<-25 dB @ 5 MHz
DC offset (max. allowable)	1.5 V

Video processing

Decoder	9 bit digital
Digital sampling	24 bit, 8 bits per color; 13.5 MHz standard
Colors	16.78 million

Video output

Number/signal type	1 scaled or pass-through RGBHV, RGBS, RGsB; or scaled component video (Y, R-Y, B-Y)
Connectors	6 female BNC 1 female 15-pin HD
Nominal level	1 Vp-p for Y of component video 0.7 Vp-p for RGB and for R-Y and B-Y of component video
Minimum/maximum levels	0.0 V to 0.7 Vp-p
Impedance	75 ohms
Scaled resolutions	640x480 ^{1,3,4,5,6} , 800x600 ^{1,3,4,5,6} , 848x480 ^{1,3,4,5,6} , 852x480 ^{1,3,4,5,6} , 1024x768 ^{1,3,4,5,6} , 1280x768 ^{2,5,6} , 1280x1024 ^{1,3,4,5,6} , 1360x765 ^{1,3,4,5,6} , 1365x1024 ^{1,3,4,5,6} , 1400x1050 ^{1,3,4,5,6} , HDTV 480p ^{3,5} , 576p ^{1,5} , 720p ^{3,5} , 1080p ^{3,5} , and 1080i ^{1,3,5} ¹ = at 50 Hz ² = at 56 Hz ³ = at 60 Hz ⁴ = at 75 Hz ⁵ = locked to the current input's vertical refresh rate (Accu-RATE Frame Lock) ⁶ = True Rate

Sync

Input type	(RGBHV, RGBS, RGsB) pass-through, RGBS, RGBcvS
Output type	RGBHV, RGBS, RGsB
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	0 V to 1.0 Vp-p
Output level	TTL: 5.0 Vp-p, unterminated
Input impedance	75 ohms
Output impedance	75 ohms
Max input voltage	5 Vp-p
Max. propagation delay	20 ns
Polarity	Positive or negative (switch-selectable)

Control/remote — decoder/scaler

Serial control port	RS-232, 9-pin female D connector
Baud rate and protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Serial control pin configurations	1 = input 1 select
	2 = TX
	3 = RX
	4 = input 2 select
	5 = GND
	6 = input 3 select
	7 = input 4 select
	8 = n/a
	9 = hardwired IR
Contact closure	9-pin female D connector (same as RS-232 connector)
Contact closure pin configurations	See pins 1, 4, 6, and 7 above.
IR controller module	Extron IR 901 (optional)
Program control	Extron's control/configuration program for Windows® Extron's Simple Instruction Set (SIS™)

General

Power

DVS 204, DVS 204D	100 VAC to 240 VAC, 50/60 Hz, 30 watts, internal, autoswitchable
DVS 204/204D 12VDC	
External power supply	100 VAC to 240 VAC, 50/60 Hz, 36 watts, external, autoswitchable; to 12 VDC, 3 A, regulated
Power input requirements	12 VDC, 2 A.

Temperature/humidity

All models	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing
DVS 204, DVS 204D	Operating: +32 to +113 °F (0 to +45 °C) / 10% to 90%, noncondensing
DVS 204/204D 12VDC	Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Rack mount	Yes, with optional rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.75" H x 8.75" W x 9.5" D (1U high, half rack wide) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs. Width excludes rack ears.)
Product weight	3.3 lbs (1.5 kg)
Shipping weight	6 lbs (3 kg)
Vibration	ISTA 1A in carton (International Safe Transit Association)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

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