

Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



QSD 204 – QUAD-STANDARD DECODER WITH OPTIONAL SDI

Decodes composite, S-video,
or component signals

Outputs component or RGB
on BNCs and 15-pin HD

Picture controls with memory
settings for recall

RS-232 and contact
closure control

Optional SDI input



DESCRIPTION

The Extron QSD 204 is a high quality, Quad Standard Decoder with a four-line adaptive comb filter that virtually eliminates chroma noise and enables a projector or monitor to display a higher quality image than that of composite video or S-video. The QSD 204 accepts composite (NTSC 3.58, NTSC 4.43, SECAM, and PAL) video, S-video, or component video on three inputs and decodes the signals into component (Y, R-Y, or B-Y) or RGB (RGsB, RGsB, or RGBHV) for output. The fourth input accepts RGBS and RGBcV from the SCART connector found on many European DVD players. The QSD 204D model is configurable for an SDI input.

Inputs, menu, and picture controls are selectable via the front panel or RS-232. Input selection is also available through auto-switch or contact closure. Picture control settings can be automatically saved for each of the four inputs including those for color, tint, contrast, brightness, centering, and top and bottom blanking. The QSD 204 is housed in a 1U, half rack width metal enclosure and is rack mountable utilizing an optional rack shelf.

FEATURES

- Four inputs accept NTSC 3.58, NTSC 4.43, SECAM, and PAL composite video, S-video, and component video on female BNCs, a 4-pin mini DIN for S-video, and RGBS and RGBcV on a 15-pin female HD connector.
- RGB or component output on both BNC and 15-pin HD connectors
- Picture controls including color, tint, contrast, brightness, centering, and top and bottom blanking
- Memory settings for automatically recalling picture controls for each input
- RS-232 and contact closure control
- SDI input (QSD 204D)

SPECIFICATIONS

Video input

Number/signal type	1 RGBS, RGBcV 1 component video (Y, R-Y, B-Y), S-video, composite video 1 SDI (optional)
Connectors.....	1 S-video 1 composite video 1 15-pin HD female (RGB) 3 BNC female (component video, S-video, composite video) 1 BNC female (optional SDI) 1 4-pin mini-DIN female (S-video) 1 BNC female (composite video)
Minimum/maximum levels	Analog- 0.0V to 1.0V p-p with no offset
Impedance	75 ohms
Horizontal frequency	15.6 kHz to 17.75 kHz
Vertical frequency.....	50 Hz to 60 Hz
Return loss	-30dB @ 5 MHz

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	2 decoded RGBHV, RGBS, RGsB, or component video
Connectors.....	6 BNC female, 1 15-pin HD female

SPECIFICATIONS (Cont.)

Minimum/maximum levels	0.0V to 0.7V p-p
Impedance	75 ohms
Vertical frequency.....	50 Hz to 60 Hz

Sync

Input type	RGBS, RGBcV
Output type	RGBHV, RGBS, RGsB, component video
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	0.0V to 1.0V p-p
Output level	TTL 5.0V p-p
Input impedance	75 ohms
Output impedance	75 ohms
Max input voltage	5.0V p-p
Max. propagation delay	20 ns
Polarity.....	Positive or negative (switch-selectable)

Control/remote — decoder

Serial control port	RS-232, 9-pin female D connector
Baud rate and protocol.....	9600, 8-bit, 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
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	IR 901
Program control	Extron's control program for Windows® Extron's Simple Instruction Set™ – SIS™

General

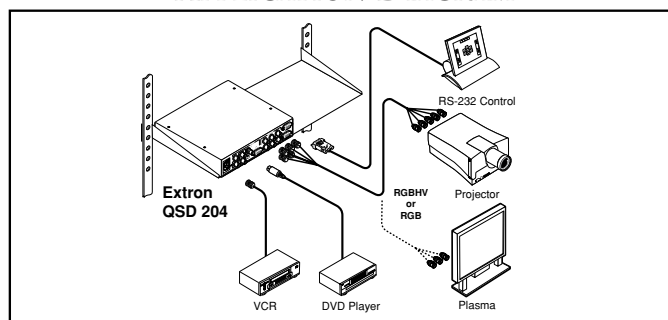
Power	100VAC to 240VAC, 50/60 Hz, 30 watts, internal, auto-switchable
Rack mount	Yes, with optional rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions.....	1.75" H x 8.75" W x 9.5" D (1U high, half rack width) 4.4 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors and knobs.)
Product weight.....	3.3 lbs (1.5 kg)
Shipping weight	6 lbs (2.7 kg)
Listings.....	UL, CUL
Compliances.....	CE, FCC Class A, VCCI, AS/NZS, ICES
Warranty	3 years parts and labor

Model

QSD 204	60-501-01
QSD 204D (with SDI).....	60-501-02

Part

APPLICATION DIAGRAM



Extron Electronics, USA
1230 South Lewis Street
Anaheim, CA 92805
800.633.9876 714.491.1500
FAX 714.491.1517

Extron Electronics, Europe
Beeldschermweg 6C, 3821 AH Amersfoort
The Netherlands
+800.3987.6673 +31.33.453.4040
FAX +31.33.453.4050

Extron Electronics, Asia
135 Joo Seng Rd. #04-01
PM Industrial Bldg.
Singapore 368363
+65.6383.4400 FAX +65.6383.4664

Extron Electronics, Japan
Daisan DMJ Bldg. 6F, 3-9-1 Kudan Minami
Chiyoda-ku, Tokyo 102-0074
Japan
+81.3.3511.7655 FAX +81.3.3511.7656