

# QSS 404

## HIGH RESOLUTION MULTI-OUTPUT SCALER

- High performance patented image scaling technology
- Supports input resolutions up to UXGA and HDTV 1080i or 1080p
- Variety of output resolutions up to SXGA+ and HDTV 1080i
- Composite, S-video, RGB, or component HD inputs
- Auto-detection of inputs
- Integrated source switcher
- DVI-I outputs - adapters supplied for analog video
- Ethernet port for scaler configuration
- Included software allows configuration of multiple QSS 404 units into larger systems



The QSS 404 is an easy-to-use, high performance scaler used to present a variety of input source types, including high definition video or graphic images, across multiple displays. Flexible output scaling features enable the QSS 404 to independently scale, crop, and magnify a source input across one to four displays. The QSS 404 is housed in a compact, rack-mountable enclosure and is ideal for single image videowalls, digital signage applications, or any application in which high quality or creative scaling capabilities are required across multiple displays.



**Extron® Electronics**  
INTERFACING, SWITCHING AND CONTROL

# DESCRIPTION

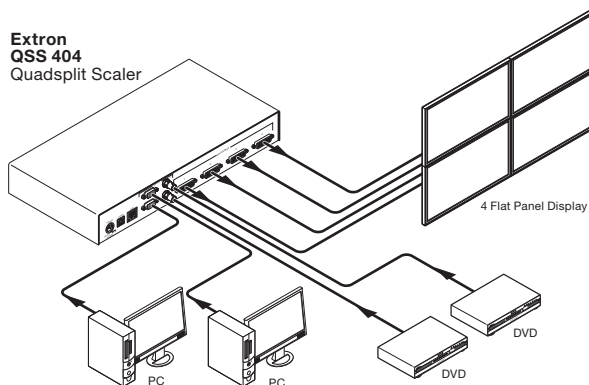
The Extron QSS 404 is a compact, multiple output scaler for one to four displays. It can be used to drive simple 2x2 display arrays, creative multi-panel arrays, or non-standard format projection and LED displays. Up to four inputs may be connected. One of these inputs may be scaled or displayed in whole or in part, independently on each output. The ability to vary image scaling, cropping, zooming, and panning allows overlaps to be defined for edge-blended projection applications. The QSS 404's compact size allows it to be mounted behind flat-panel displays. All configuration is done through the Ethernet port using the included configuration software.

Using patented image scaling technology, the QSS 404 is able to accept inputs up to UXGA or HDTV, and scale and split the image to drive up to two displays at SXGA+ or HDTV 1080i, or four outputs at SXGA, WXGA, or HDTV 720p. Scaling images up or down, this technology produces very high quality images for any display or display array.

# FEATURES

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# APPLICATION DIAGRAM



# SPECIFICATIONS

| VIDEO INPUT    |                                |
|----------------|--------------------------------|
| Number .....   | 2 for composite; 1 for S-video |
| Connector..... | BNC male                       |
| Format.....    | NTSC / PAL / SECAM             |
| Signal.....    | 1.0 Vp-p                       |

| COMPUTER / HD INPUT |  |
|---------------------|--|
| Number .....        | 2  |
| Connector.....      | 15 pin HD female                               |
| Resolution.....     | Video to 1600 x 1200; 720p, 1080i, or 1080p    |
| Scan.....           | Interlaced and Progressive                     |
| Signal.....         | Analog RGB / YPrPb 700mV, H&V or Sync on Green |

| DISPLAY OUTPUT             |  |
|----------------------------|--|
| Number .....               | 4  |
| Connector.....             | DVI-I female (DVI-I to VGA adapters supplied)  |
| Resolution.....            | 15 kHz Video to UXGA or 1080i<br>- 4 outputs up to WXGA, SXGA or 720p<br>- 2 outputs up to UXGA or 1080i |
| Scan.....                  | Interlaced and Progressive   |
| Signal.....                | Analog RGB / 700mV, H&V Sync   |
| Largest magnification..... | 16 x progressive input resolution<br>8 x interlaced input resolution                                     |
| Smallest minification..... | 16 x progressive input resolution<br>8 x interlaced input resolution                                     |

| NETWORK CONNECTION |                       |
|--------------------|-----------------------|
| Connector.....     | RJ45 female           |
| Interface .....    | 10/100Mbps (100BaseT) |
| Protocol.....      | TCP/IP                |
| Addressing.....    | Static IP             |
| Functionality..... | Configuration         |

| SERIAL CONNECTION  |                      |
|--------------------|----------------------|
| Connector.....     | USB B female         |
| Interface .....    | USB 2.0              |
| Functionality..... | Firmware upload only |

| PHYSICAL          |  |
|-------------------|--|
| Size.....         | 293 x 185 x 44 mm (11.55 x 7.30 x 1.75 inches) |
| Weight.....       | 1.43 lb (0.65kg)                               |
| Temperature ..... | 41° F- 96° F (3°C - 35°C)                      |
| Humidity.....     | 10 - 90% RH Non-condensing                     |

| POWER          |                             |
|----------------|-----------------------------|
| Connector..... | 3-pin 2-pole socket         |
| Voltage .....  | 12V DC                      |
| Current.....   | 2.0A max at 12V             |
| Mains.....     | 90-264V AC adapter supplied |

| APPROVALS    |   |
|--------------|---|
| RFI/EMC..... | EN55022 Class B; EN55022 Class C; CE<br>AC Adapter: FCC Class B; CE |
| Safety.....  | EN60950-1 992<br>AC Adapter: UL, EN60950                            |

| Model       | Version Description                      | Part number |
|-------------|--|-------------|
| QSS 404     | Multi-Output Scaler .....                | 60-1115-01  |
| QSS 404 RMK | Multi-Output Scaler Rack Mount Kit ..... | 60-1116-01  |

Specifications are subject to change without notice.



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