

# Tesseract ST Matrix

UP TO 32 x 8 BASE UNIT, STACKABLE TO 56 x 8 CCTV CONTROL & SWITCHING MATRIX

## Powerful CCTV Systems Control



**The Tesseract ST is a 1U, 19" rack mount style matrix designed to offer an integrated and flexible solution for CCTV System Control and Video Switching applications.**

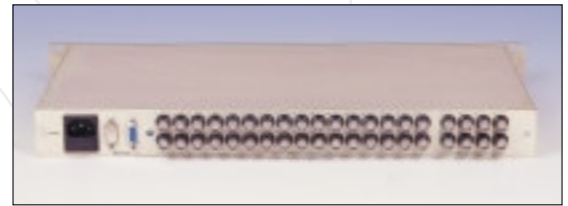
Fulfilling the requirement of CCTV surveillance specifiers and installers for an unrestricted choice of equipment and system design, the Tesseract ST offers an unrivalled depth of seamless third party integration and control for a variety of industry standard products including Time Lapse VCRs, Multiplexers, Telemetry Systems and P/T/Z Camera Domes.

For use with the Synectics X250 keyboard, each Tesseract ST Matrix features a class-leading ultra compact design, saving on control room space, power consumption and installation time and complexity. Featuring an excellent signal to noise ratio, Tesseract ST supports the very latest advances in CCTV video camera performance, delivering pin sharp, broadcast quality pictures.

When installed at the heart of any CCTV surveillance system, new or retro-fit, the Tesseract ST will offer years of reliable and robust performance, with its tried and tested Tesseract technology.

### Features

- Ultra compact design
- Easily re-configurable
- Broadcast picture quality
- Extremely reliable & robust
- Low power consumption
- Modular construction
- Fully non-blocking
- Unparalleled value for money



## Features

**Input & Output Active Buffering** To maintain the integrity of Video Images, Active Buffering is employed in both the input and output circuitry. This feature is of vital importance when considering use with long cable runs, where incoming video information might otherwise degrade. Flexibility of design is reflected in the availability of various input configurations i.e. Hi-Z or DC coupled. Supplied as standard in 75Ω terminated AC coupled format (other options should be specified when ordering).

**Built In Reliability** Ensuring operational temperatures stay within design tolerance parameters, each Tesseract ST Matrix operates within a controlled 'thermo-efficient' environment. The nature of this design allows the Tesseract ST Matrix to be installed virtually world-wide, without the need for additional cooling, reducing installation time and cost.

Tesseract ST Matrices employ self-diagnostic Control Management Systems which ensure that all system performance parameters are continually monitored and maintained, providing a consistent level of performance.

**Adjusterless Operation** The Tesseract ST's high tolerance optimized design, allows for a 'drift free', no adjustments necessary performance. This advanced feature guarantees enhanced reliability and endurance, ensuring minimal maintenance.

**Fully Non-Blocking Flexibility\*** Unlike less sophisticated Matrix Switchers, all Tesseract ST Matrices employ 'fully non-blocking' programming technology. This powerful Video Switching capability, allows any number of cameras to be assigned to any number of monitors while performing other complicated sequence, or restricted viewing routines. With this feature any number of complex switching requirements can be executed with complete confidence.

**Ultra-Compact Construction** Not content with leading the field in advanced system control electronics, much design emphasis is also incorporated into Tesseract ST's mechanical construction with a 'high density build' layout reducing overall size, power consumption and weight. 'Micro-strip' technology provides a wire-less internal construction to give the Tesseract ST Matrix unparalleled leading edge performance in all aspects of its design engineering.

## Specification

- Bandwidth
  - ± 0.1dB to 6 MHz
  - ± 0.25dB to 10 MHz
  - -3dB @ 50MHz
- Signal to noise ratio
  - Better than 60dB
- Cross-talk
  - >-60dB
- Connectors
  - Mains IEC with on/off switch
  - 9 Pin D type (serial RS485 control)
  - 40 x 75Ω BNC connectors
- Indication
  - On-board diagnostic LEDs
- Power
  - 110/230V AC 60 Watts (Max)
- Temperature
  - 0 - 40°C (32 - 104°F) ambient
- Dimensions
  - 19", 1U rack mount chassis
  - 19" (W) x 1.75" (H) x 10.14" (D)
  - 485mm(W) x 45mm(H) x 260mm(D)
- Weight
  - 8.8 lbs/4Kg

**Tesseract ST range, associated options:**  
Keyboard Controller – X250M

### Configurations Available

| Inputs | Outputs |
|--------|---------|
| 16     | 8       |
| 32     | 8       |
| 56     | 8       |

All models are 19" rack mountable.

*\*patent applied for*