VSCM-200 RS-422 Dual-Input Code Merger

- **Merges data from two RS-422 control systems into a single output**
- **Allows control of a single device from two control systems**
- **Compact styling**
- **Simple installation and mounting options**
- **Indoor use**

The VSCM-200 Code Merger can take RS-422 input signals from two Vicon control systems and merge it into one output signal. In this way, two Vicon control systems can access one device. For example, a NOVA1500 system and a Kollector Elite can have simultaneous control of a Surveyor2000 dome. Additionally, the VSCM-200 can be daisy-chained for system expansion. See Figure 1 for some typical installations.

The unit has a rotary switch that allows the selection of individual input and output baud rates from 2400 to 19,200 baud. Input 1 addresses are always 1 - 255. Input 2 addresses can be offset by DIP switch selection in groups of 16, up to a maximum of 112. The maximum address is 256; if the address exceeds 256, there will be no output.

The unit has four indicators. Two Receive indicators flash when there is data on the input lines (light solidly when input polarity has reversed). An Error indicator flashes when there is invalid data on an input line (lights solidly for any invalid baud rate selection). A Transmit indicator flashes when an output code is sent.

A removable mounting clip can be snapped onto a rack rail or screwed to a panel or wall. Convenient screw terminals are used for power/data in and data out connection.

Technical Information

ELECTRICAL

Input Voltage: 9 - 15 VAC or VDC at 75 mA.
Current Drain: 75 mA.
Power Consumption: 0.675 W - 1.125 W.
Heat Equivalent: 0.04 - 0.06 btu/min.
(0.01-0.016 kg-cal/min).
Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

CONNECTORS, CONTROLS AND INDICATORS

Power: Screw terminal.
Data Input: Screw terminal.
Data Output: Screw terminal.
Baud Selection: Rotary switch-selectable baud rate, 2400, 4800, 9600 or 19,200 baud.
Address Selection: DIP switch allows the addressing of input 2 in groups of 16, up to 112.
Indicators: Four red LEDs indicate Receive input 1 and 2, Error and Transmit output.

MECHANICAL

Application: Indoor.
Dimensions: Height: 1.25 in. (32 mm).
Width: 4.5 in. (114 mm).
Depth: 3.5 in. (89 mm).
Weight: 0.5 lb (0.2 kg).
Construction: Plastic.
Finish: Black.

ENVIRONMENTAL

Storage Temperature Range: -20 to 140° F (-29 to 60° C).
Storage Humidity: Up to 90% relative, noncondensing.

Vicon Product Facts	Model No: VSCM-200	Product Code: 8342	SEC: 1/2	SPEC NO.: V132	REV: 903

Vicon part number 8009-7132-00-00

Product specifications subject to change without notice.

TECHNICAL SPECIFICATIONS   **SECURITY SYSTEM**
DIVISION 13 - SPECIAL CONSTRUCTION
SECTION 137_ _ - SECURITY CCTV SYSTEM

PART 2 - PRODUCTS

2.01 GENERAL

A. All equipment and materials used shall be standard components, regularly manufactured, regularly utilized in the manufacturer's system.

B. All systems and components shall have been thoroughly tested and proven in actual use.

C. All systems and components shall be provided with the availability of a toll free 24-hour technical support phone number from the manufacturer. The phone number shall allow for immediate technical assistance for either the dealer/installer or the end user at no charge.

D. All systems and components shall be provided with an explicit manufacturer warranty.

2.02 RS-422 TWO-INPUT CODE MERGER

A. The Code Merger shall take RS-422 input signals from two proprietary control systems and merge it into one output signal. In this way, two proprietary control systems shall be able to access one device.

B. The unit shall allow the selection of individual input and output baud rates from 2400 to 19,200 baud by use of a rotary switch.

C. Input 1 addresses are always 1 - 255. Input 2 addresses shall be able to be offset by use of a DIP switch in groups of 16, up to a maximum of 112. The maximum address shall be 255; if the address exceeds 255, there shall be no output.

D. The unit shall have four indicators. Two Receive indicators shall flash when there is data on the input lines (light solidly when input polarity has reversed). An Error indicator shall flash when there is invalid data on an input line (lights solidly for any invalid baud rate selection). A Transmit indicator shall flash when an output code is sent.

E. The code merger shall accept 9 -15 VAC or VDC at 75 mA and shall be for indoor use.

F. The code merger shall have the following mechanical specifications:

   1.   **Mounting:** Removable mounting clip for snapping to rack rail or attaching to wall or panel.

   2.   **Dimensions:** Height: 1.25-in. (32 mm).
                          Width: 4.5-in. (114 mm).
                          Depth: 3.5-in. (89 mm).

   3.   **Weight:** 0.5 lb (0.2 kg).

   4. **Construction:** Plastic.

   5.   **Color:** Black.

The RS-422 Two-Input Code Merger shall be Vicon Industries model number VSCM-200.

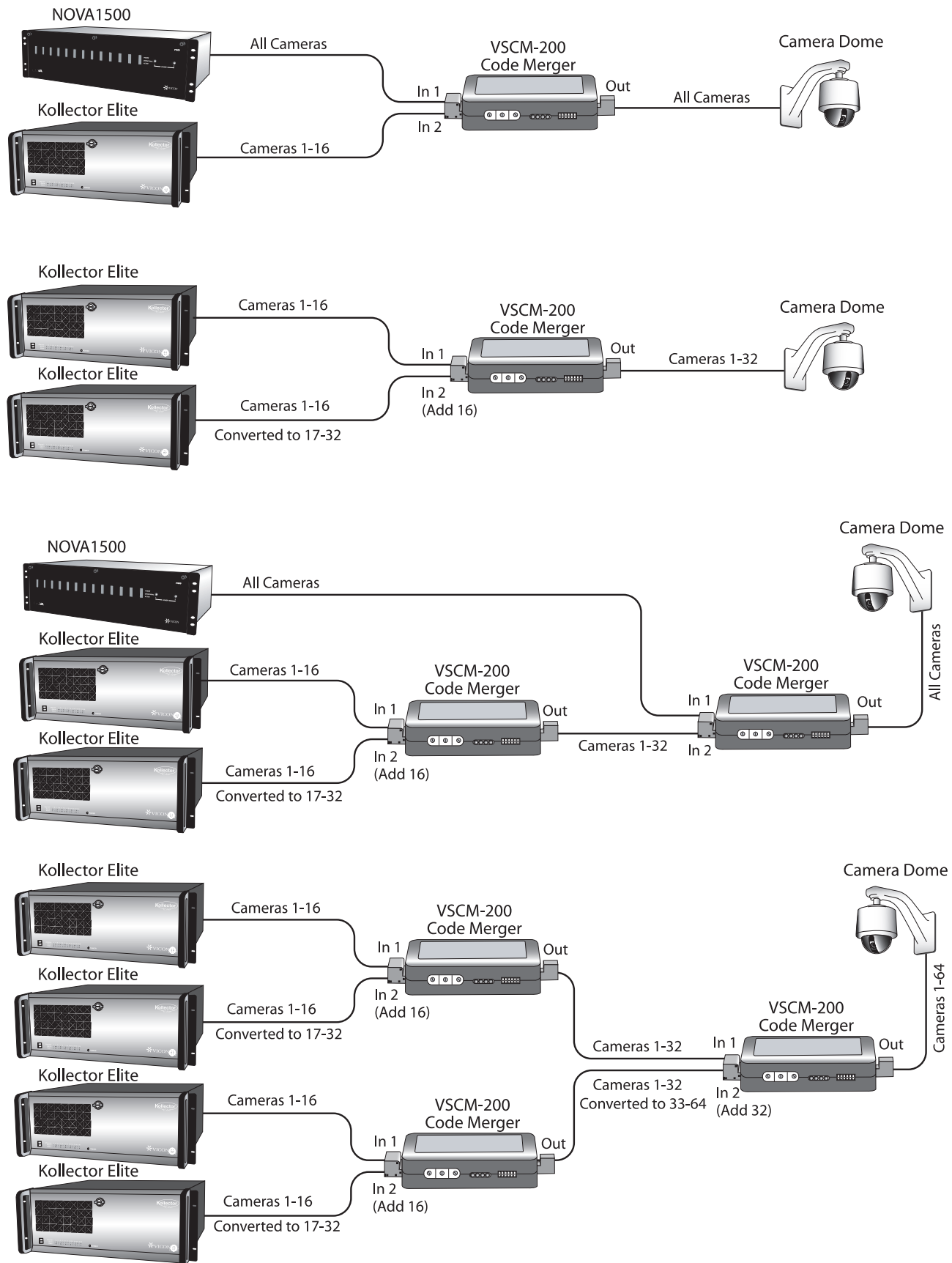| Vicon Product Facts	Model No: VSCM-200	Product Code: 8342	SEC: 1/2	SPEC NO.: V132	REV: 903

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Figure 1: Typical Applications