



## V1313RB Series Indoor Receivers

- **Models available for NOVA™ and Vicoax®/Vicoax II**
- **24, 120 and 230 VAC input versions available**
- **Indoor**

The V1313RB receiver is an indoor unit designed to provide full motion control for a CCTV camera control station. Standard receiver functions include pan, tilt, autopan, zoom, focus, iris, autoiris, two auxiliary functions (latching or momentary), and one alarm input (NOVA only). The V1313RB is designed to operate with pan-and-tilts and cameras using 24 VAC (Vicon VIST35 series, V3000APT, V3400APT series, V3030APT series). The

receiver may be used with any NOVA or Vicoax/Vicoax II control system and is available with 24, 120 or 230 VAC input. Refer to Table 1 for model/system compatibility. The term V1313RB is used to refer to all versions of the receiver unless specifically stated otherwise.

The V1313RB-N, for the NOVA control system, offers a choice of simplex or duplex communications with the NOVA CPU. Simplex communication requires a single shielded twisted-pair cable between the control system and receiver while duplex communication requires two individually-shielded twisted pairs. The simplex communication option offers a savings in cable costs. If the system operator wants to have receiver alarm inputs and communication failures displayed on the LED readout on the control keypad, duplex operation is necessary. The communications rate is 4800 baud.

Model Number	Product Code	Description
V1313RB-VI	6351	120 VAC input/24 VAC output, Vicoax/Vicoax II
V1313RB-VI-240	6352	230 VAC input/24 VAC output, Vicoax/Vicoax II
V1313RB-VI-24	6353	24 VAC input/24 VAC output, Vicoax/Vicoax II
V1313RB-N	6354	120 VAC input/24 VAC output, NOVA
V1313RB-N-240	6355	230 VAC input/24 VAC output, NOVA
V1313RB-N-24	6356	24 VAC input/24 VAC output, NOVA

**Table 1: Model Numbers and Descriptions**

## Contractors' Specification

### Indoor Receivers

Standard receiver functions shall include pan-and-tilt operation, autopan, zoom lens drive, focus and iris operation, and autoiris control. The receiver shall have one alarm input (RS-422 only) and two auxiliary functions which can be set for momentary or latching operation.

The receiver shall be available in several models to offer compatibility with various control transmitters and CPUs. The receiver shall be compatible with RS-422, RS-232, and TTL communications. The RS-422 receiver shall offer a choice of simplex or duplex communication with the CPU.

The receiver shall be available in three operating voltages: 24 VAC, 120 VAC, and 230 VAC. The output voltage to the pan-and-tilt shall be 24 VAC and maximum power consumption for the receiver shall not exceed 45 W. The receiver shall be encased in a steel enclosure. The receiver shall comply with the requirements for an FCC Class A classification and with European Community(CE) standard EN 50081-1 and EN 50082-1.

The receiver shall be a compact unit. Maximum dimensions shall not exceed: height, 3.1 in. (79 mm); width 8.6 in. (218 mm); depth 8.25 in. (210 mm). The weight of the unit shall not exceed 6.0 lb (2.7 kg). The receiver shall be Vicon model V1313RB series indoor receivers.

# Technical Information

## ELECTRICAL

**Input Voltage:** V1313RB-N, V1313RB-VI: 120 VAC, 60 Hz.  
V1313RB-N-24, V1313RB-VI-24:  
24 VAC, 60 Hz.  
V1313RB-N-230, V1313RB-VI-230:  
230 VAC, 50 Hz.

**Power Consumption:** 45 W. (Associated equipment, such as pan-and-tilt and auxiliary devices, are not included in power ratings.)

**Heat Equivalent:** 2.6 btu/min (0.6 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.

**Fuse:** 120/230 VAC: 0.5 A 250 V 5 mm slo blo and 5 x 20 mm 2 A slo blo.  
24 VAC: 5 x 20 mm 2 A slo blo.

**Video Input/Output:** BNC connectors.

**Receiver Control Input:** V1313RB-N, V1313RB-N-24, V1313RB-N-230 (NOVA): RS-422/RS485 communications. RJ-45 connector. Two leads differential RS-422 command. Two leads differential RS-422 response. Two leads shield ground. Up to five miles distance between receivers when using Belden No. 9182 shielded twisted-pair wires or equivalent. Baud rate selectable from DIP switch on main PCB.  
V1313RB-VI, V1313RB-VI-24, V1313RB-VI-230 (Vicoax/Vicoax II): TTL communications. Two BNC connectors route control signals from the Vicoax transmitter to receiver and connect the video from the camera to the receiver.

**Auxiliary Functions:** Terminal block on front panel. Normally open (NO). Selectable momentary or latching.

**Pan-and-Tilt Output:** Terminal block on front panel.

**Lens Drive Output:** Terminal block on front panel.

## OPERATION

**Basic Functions:** Pan left and right.  
Tilt up and down.  
Autopan.  
Zoom in/out.  
Focus near/far.  
Iris open/close.  
Autoiris.  
Two auxiliary relays, selectable momentary or latching.  
4800 baud.

## MECHANICAL

**Dimensions:** Height (H): 3.1 in. (79 mm).  
Width (W): 8.6 in. (218 mm).  
Depth (D): 8.25 in. (210 mm).

**Weight:** Approximately 6.0 lb (2.7 kg).

**Construction:** Steel.

**Shipping Dimensions:** Height: 6.5 in. (165 mm).  
Width: 12.5 in. (316 mm).  
Depth: 12.5 in. (316 mm).

**Shipping Weight:** Approximately 7.1 lb (3.2 kg).

**Shipping Volume:** 0.6 ft<sup>3</sup> (0.02 m<sup>3</sup>).

## ENVIRONMENTAL

**Operating Temperature Range:** -4° to 104° F (-20° to 40° C).

**Operating Humidity:** Up to 95% relative, noncondensing.

**Storage Temperature Range:** -20 to 140° F (-29 to 60° C).

**Storage Humidity:** Up to 85% relative, noncondensing.

