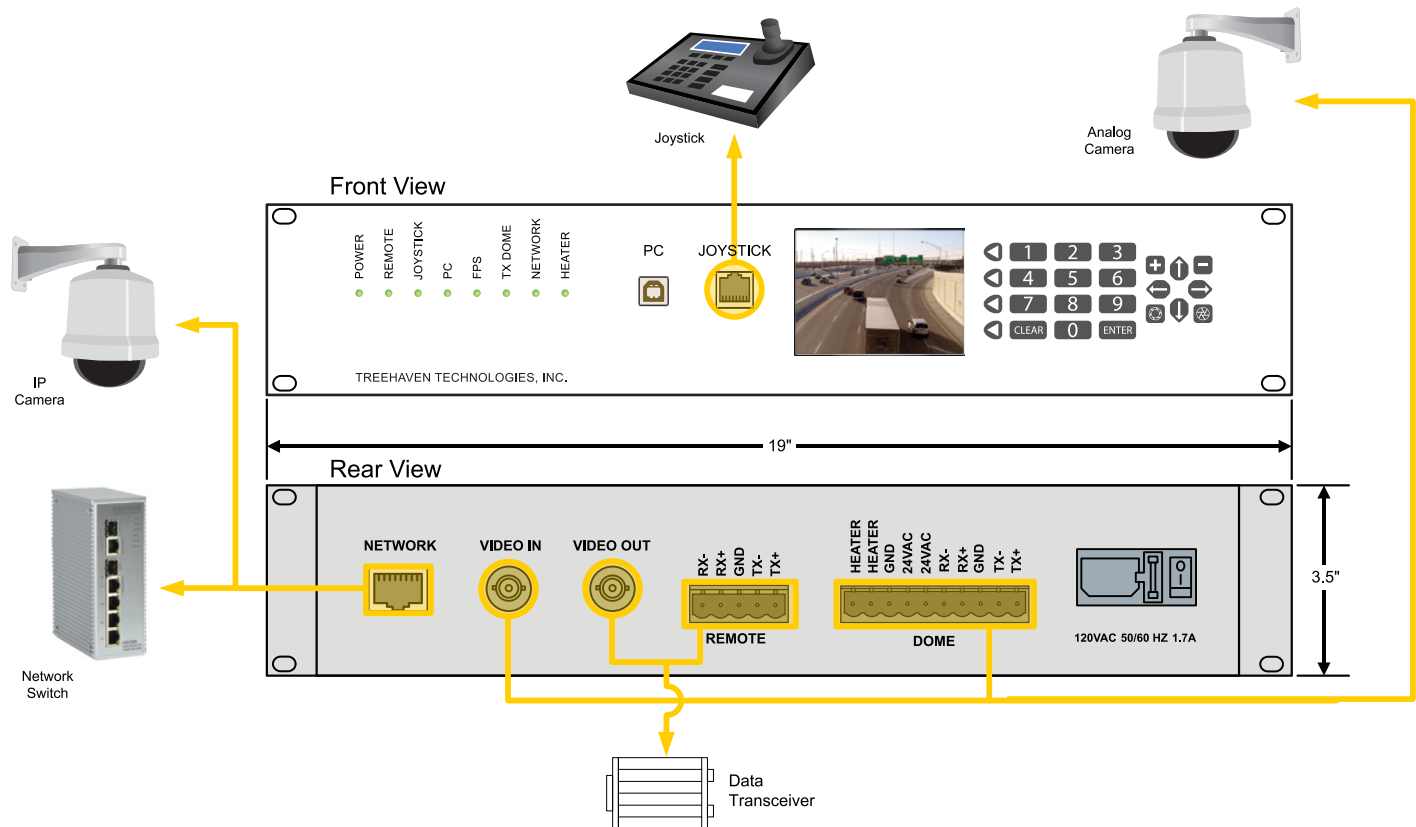**RVSFB120RNET**

Features:

- Front panel ultra bright LED backlit color LCD display readable in direct sunlight
- Local PTZ control: Front panel control buttons and/or plug-in joystick
- Provides camera power and lightning protection for all inputs and outputs
- Heater current and power factor detection. Displays heater failure details on LCD display
- Detects and reports video loss and generates sync signal with "Loss of Video" message on blue screen
- Text overlay to report system health status and other system parameters. Text overlay can be turned ON and OFF remotely using a predefined PreSet command
- Remote Diagnostics
- Plug in connection for local joystick controller
- USB plug in connection for laptop computer providing PTZ control and camera setup and configuration
- Auto-sensing of joystick, serial and remote data connections
- System status: Loss of video, Network status, Power, Heater/Blower
- Text on video (OSD)
- Hardened

TREEHAVEN
technologies

integrated video))

Joystick

Analog Camera

Front View

POWER | REMOTE | JOYSTICK | PC | FPS | TX DOME | NETWORK | HEATER

PC | JOYSTICK

```
1 2 3
4 5 6
7 8 9
CLEAR 0 ENTER
```

TREEHAVEN TECHNOLOGIES, INC.

IP Camera

19"

Rear View

NETWORK | VIDEO IN | VIDEO OUT | RX- RX+ GND TX- TX+ | HEATER HEATER GND 24VAC 24VAC RX- RX+ GND TX- TX+ | 120VAC 50/60 HZ 1.7A

REMOTE | DOME

3.5"

Network Switch

Data Transceiver

Electrical
AC Input Voltage: 120VAC 50/60 Hz
Dome Power Output: 24V, 80W, 50/60 Hz

Power Transformer:
    Power Rating: 80 VA
    4000VRMS Hipot
    Class F insulation (155 Degrees C)
    Agency Certifications
    • UL 1446 E66312
    • UL recognized to UL 506 / UL 5085-2, File # E63829
    • CSA certified to C22.2 No 66.1, File # 221070
    • VDE certified to VDE 0805 / EN 60950, File # 1448

Surge Suppression Data Ports:
    Peak Surge Current (8 x 20 μS): 10kA
    Response Time: <1 nS
    Voltage Clamp: 6V
    Technology: Hybrid
    Resistance: 5.4 Ω
    Impulse Life (10/1000μS 500A): 400 times
    EFT IEC 1000-4-4 and IEC 1000-4-2

Surge Suppression Video Ports:
    Peak Surge Current (8 x 20 μS): 10 kA
    Response Time: <1 nS
    Voltage Clamp: 8V
    Technology: Hybrid
    DC Resistance: 2.7 Ω
    Impulse Life (10/1000μS 500A): 400 times
    EFT IEC 1000-4-4 and IEC 1000-4-2

Surge Suppression AC Main:
    Peak Pulse Current (8 x 20 μS): 4500A
    Peak Pulse Energy (10 x 1000 μS): 75J
    Max Clamping Voltage (8 x 20 μS): 710V

Network:
    10/100 Base T, RJ-45

Embedded 4 Port Managed Switch (Optional)
• Simple plug & play operation - automatic learning, negotiation and crossover detection
• RSTP (802.1w) and Enhanced Rapid Spanning Tree (eRSTPTM) network fault recovery (<5ms)
• Quality of Service (802.1q) for real-time traffic
• VLAN (802.1q) with double tagging and GVRP support
• Link aggregation (802.3ad)
• IGMP Snooping for multicast filtering
• Port Rate Limiting and Broadcast Storm Limiting
• Port configuration, status, statistics, mirroring, security
• SNTP time synchronization (client and server)
• Multi-level user passwords
• SSH/SSL encryption
• Enable/disable ports, MAC based port security
• Port based network access control (802.1x)
• VLAN (802.1q) to segregate and secure network traffic
• Radius centralized password management
• SNMPv3 encrypted authentication and access security
• Web-based, Telnet, CLI management interfaces
• SNMP v1/v2/v3
• Remote Monitoring (RMON)
• Rich set of diagnostics with logging and alarms
• Powerful Marvell 886097F switch fabric
• Wire-speed, non-blocking, store and forward switching
• Full ROS® feature set including eRSTP for fast network fault recovery
• Coldfire 5272 management CPU Engine (66Mhz, 16MB RAM)

Environmental
Operating Temperature: -34°C to 60°C
Humidity: 5% to 95%, non-condensing

Data
Joystick: RS-422, Rx+, Rx-, Tx+, Tx-
Laptop: RS-232, Tx, Rx, Gnd
Remote Control: RS-422, Rx+, Rx-, Tx+, Tx-

Video
Video Input: BNC, 75 Ohms, NTSC, 1 Vpp
Video Output: BNC, 75 Ohms, NTSC, 1 Vpp
Monitor Output: BNC, 75 Ohms, NTSC, 1 Vpp

VDA:
Input Composite Video Signal: 1.0 Vpp.
S/N Ratio: +60 dB typ.
2nd Distortion: -40 dB typ.

Frequency Characteristic

Gain (dB) vs Frequency (Hz)