

## Overview

The IFS VIC5211 series video intercom system is designed for full compatibility with Aiphone LEM, LEF, and NEM equipment. The module supports the simultaneous transmission of fixed video, half-duplex audio and bi-directional contact closure over one multimode optical fiber. Plug-and-play design ensures ease of installation. The module provides push to call, remote closure contacts and also allows for adjustment of speaker volume and microphone gain. The modules incorporate power, carrier detect, and AGC status indicating LED's to monitor proper system operation. The modules are available in either stand-alone or rack mount versions.

## Application Examples

- Aiphone LEM, LEF, NEM Intercom Equipment
- Fixed Video Transmission
- Half-Duplex Audio
- Remote Gate Control

## Standard Features

- Compatible with Aiphone™ LEM, LEF, and NEM Intercom Equipment
- Fixed Video Transmission
- Half-Duplex Audio
- Built-in 3 watt Audio Amplifier
- Transmits Push-to-Call via Contact Closure
- Transmits Remote Contact Closure to .5 amp Relay Out for Gate Control
- Full Range Automatic Gain Control (AGC)
- Plug and Play Design Ensures Ease of Installation
- Power, Carrier Detect, and AGC Status Indicating LED's to Monitor System Performance
- Automatic Resettable Fuses on all Power Lines
- Hot-Swappable Rack Modules
- Distances up to 2.5 miles (4 km) without Repeaters
- Comprehensive Lifetime Warranty

# Aiphone™ Video Intercom System

Supports the simultaneous transmission of fixed video, half-duplex audio and bi-directional contact closure over one multimode optical fiber.



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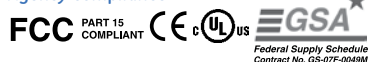
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Specifications subject to change without notice

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## Agency compliance



## Made in the USA

Complies with FDA Performance Standard for Laser Products, Title 21, Code of Federal Regulations, Subchapter J

## Specifications

### Intercom remote station

- Push to call
- Audio In/Out - 3W (8-20 ohms)
- 0.5A relay contact (N.O.)

### Master station

- Audio In/Out
- Contact Closure
- To Remove
- From Remove

### Audio

Bandwidth: 300 Hz - 5 kHz

### Video

Video Input: 1 volt pk-pk (75 ohms)  
 Bandwidth: 5 Hz - 6 MHz  
 Differential Gain: <5%  
 Differential Phase: <5°  
 Tilt: <1%  
 Signal-to-Noise Ratio (SNR): 60 dB (minimum)

Wavelength: 850/1310 nm, Multimode

Number of fibers: 1

### Connectors

Optical: ST  
 Power, Audio and Contact: Terminal Block with Screw Clamps  
 Video: BNC (Gold Plated Center-Pin)

### Electrical & Mechanical

Power: 18 VAC  
 Surface Mount Remote: 18 VAC  
 Surface Mount Master: 24 VAC C.T.  
 Rack: From Rack  
 Number of Rack Slots: 2 (Master Only)  
 Current Protection: Automatic Resettable Solid-State Current Limiters  
 Circuit Board: Meets IPC Standard  
 Size (in./cm.) (LxWxH)  
 Remote: 10.8 x 5.7 x 1.0 in., 27.5 x 14.5 x 2.5 cm  
 Master Surface Mount: 7.0 x 4.9 x 2.0 in., 17.8 x 12.5 x 5.1 cm  
 Master Rack Mount: 7.7 x 5.0 x 2.0 in., 19.6 x 12.7 x 5.1 cm  
 Shipping Weight: < 2 lbs./0.9 kg

### Environmental

MTBF: > 100,000 hours  
 Operating Temp: -40° C to +74° C  
 Storage Temp: -40° C to +85° C  
 Relative Humidity: 0% to 95% (non-condensing)†

†May be extended to condensation conditions by adding suffix '-C' to model number for conformal coating.

## Ordering Information

	Part Number	Description	Fibers Required	Optical Pwr. Budget	Max. Distance*
Multimode 62.5/125µm**	VIC5211M VIC5211R	Video Receiver / Intercom Master (1310/850 nm) Video Transmitter / Intercom Remote (850/1310 nm)	1	14 dB	2.5 miles (4 km)
Accessories*	PS-18 VAC 18 Volt AC Plug-in Power Supply (Included with VIC5211R) PS-24 VAC 24 Volt AC Center Tap Transformer (Included with VIC5211M)				
Options	Add '-R3' to Model Number for R3 Rack Mount - No Charge (Requires R3 Rack purchased separately) Add '-C' for Conformally Coated Printed Circuit Boards (Extra charge, consult factory)				

\*Optical transmission distance is limited to optical loss of the fiber and any additional loss introduced by connectors, splices and patch panels. Distance can also be limited by fiber bandwidth. \*\*For 50/125 Fiber, subtract 4 dB from Optical Power Budget. \*All accessories are third party manufactured.



## System Design

