

1000 Series



Rack Mount

Description

Nitek's **FRM111000R00** is a single channel multi-mode video receiver. This single fiber per camera multi-mode solution provides a cost effective cabling scheme for single camera applications where distances are not extremely long and traditional cabling is deemed ineffective.

The **FRM111000R00** is designed to support video only applications using a single multi-mode fiber per camera to receive video to a maximum distance of 13,000 feet (2.5 miles).

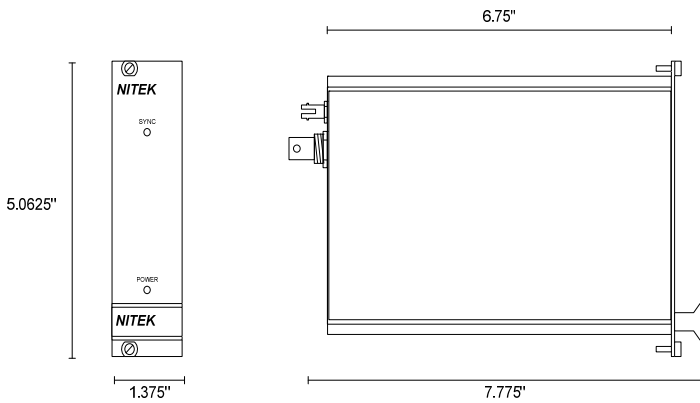
The incorporation of automatic gain control built into the receiver makes this truly a 'plug-and-play' video system, requiring no field set up or adjustments.

The inherent reliability combined with the ease of installation has propelled the **FRM111000R00** to the forefront of the video transmission industry.

The 1000 Series receivers are equipped with LED indicators which provide an at-a-glance operating video and optics state.

Features

- Receivers are equipped with AGC - no installation set up or ongoing maintenance required.
- Transmission over multi-mode fiber allows the use of lower cost termination techniques.
- 2.5 miles video transmission distance at 850nm, with no repeaters required.
- Fully repeatable signal.
- Receivers equipped with front panel LED status indicators provide at-a-glance diagnostics of the systems video and optics state.
- Modular rack provides flexibility to system design.
- Standalone transmitters and receivers are available, which allow for the ease of installation with limited camera counts.



Ordering Information

| Fiber Type | Part # | Compatible Transmitters | # Fibers | Loss Budget | Connector | Max Distance |
|-----------------------|--|------------------------------|----------|-------------|-----------|----------------------------|
| Multi-Mode 62.5/125µm | FRM111000R00 | FTM111000S00 FTM133000R00 | 1 | 13dB | ST/ST | 2 ½ miles (13,000 feet) |
| Description | FRM111000R00 Video Receiver 850nm LED | | | | | |
| Accessories Items | FSR1000 Sub Rack | | | | | |

FRM111000R00

Single Channel Video Only Receiver

FRM111000R00-022009

TECHNICAL SPECIFICATION

Video

| | |
|--------------------------|---------------------|
| Compression | None, Uncompressed |
| Input / Output Level | 1.5Vp/p max. |
| Input / Output Impedance | 75 Ohm Unbalanced |
| Frequency Response | 10Hz to 10Mhz. min. |
| Differential Gain | 4% |
| Differential Phase | 4° |
| Signal to Noise Ratio | 50dB |
| Video Connection | BNC |
| Video Standard | NTSC/PAL |

Optical

| | |
|-----------------------|-------------------------|
| Multi Mode Fiber | 50/125 or 62.5/125 |
| Wavelength | 850nm LED |
| Optical Connector | ST |
| Path Loss | |
| 50/125 | 10dB min.50/125 |
| 62.5/125 | 13dB min. |
| Transmission Distance | |
| Multi-Mode Fiber | 2.5 miles (13,000 Feet) |

Data

Not Available in 1000 Series See 3000 Series

Auxiliary Communication

Not Available in 1000 Series See 3000 Series

Audio

Not Available in 1000 Series See 5000 Series

Ethernet

Not Available in 1000 Series See 5000 Series

General

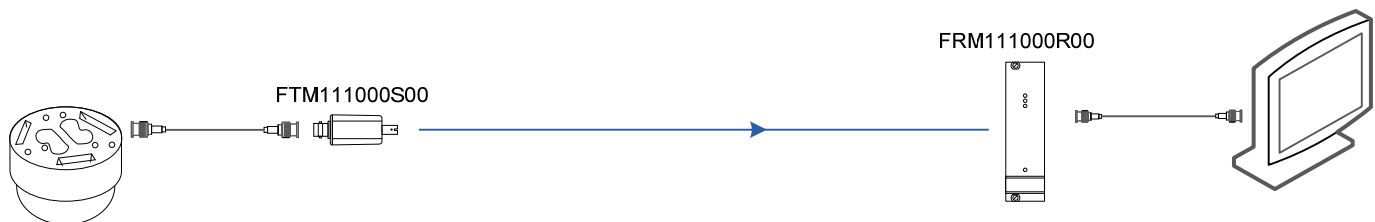
| | |
|-----------------------|-------------------------|
| Operating Temperature | 5° to 160° Fahrenheit |
| Operating Humidity | 0 to 95% non-condensing |
| Power Requirements | Powered from FSR1000 |
| Indicators | |
| Power | Green LED |
| Video Sync | Green LED |

Mechanical

| | |
|--------|-------------|
| Height | 3U |
| Width | 1 Card Slot |
| Depth | 7.775" |

In our continued effort to "Bridge the Gap in Technology", product specifications are subject to change without notice.

System Design



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