



# INFRARED EXTENDER SYSTEMS

featuring **NEW** NILES IR SENSORS

**NEW** HIGH FIDELITY  
WIDEBAND DESIGN  
WITH UNIVERSAL NOISE SUPPRESSION



**TS120**  
Tabletop IR Sensor  
FG01581

**CS120**

Ceiling-Mount IR Sensor  
FG01583



**MS220**

Surface-Mount  
IR MicroSensor®  
FG01577



**WS120**

Wall-Mount IR Sensor  
FG01582



**MS120**

Flush-Mount IR MicroSensor®  
FG01580

Backwards compatible  
with Niles IR systems



## THE INDUSTRY'S FIRST HIGH-FIDELITY WIDEBAND IR EXTENDER SYSTEMS

Niles introduces the most advanced line of IR extender systems on the market today. Our IR Sensors have been redesigned to make them compatible with a new generation of IR code formats found on many new high-definition, multi-media source devices. The sensors feature a high fidelity wideband amplifier that can accurately pass these IR code formats, including the recently introduced Philips **RCMM codes**.

In addition, a patent-pending **Universal Noise Suppression** design effectively eliminates IR

interference from plasmas, LCDs, and CFL lighting while maintaining signal integrity. This two-stage technology combines an optical noise filter with a "smart" electronic circuit to provide consistent, reliable control.

Best of all, these advanced technologies are found in each new Niles IR Sensor. They are the single solution for fast, predictable installations in any environment, without the added cost of carrying specialized inventory.

Hide your audio/video components in a cabinet, closet, or even another room and maintain full control using your wireless IR remote.



A Niles Infrared Extender System consists of:

- 1 Infrared Sensor** receives the IR commands from a remote control and routes the commands to the Infrared Main System Unit.
- 2 Infrared Main System Unit** distributes the commands to the Infrared Flashers.
- 3 Infrared Flashers** transmit the IR commands to the audio/video components.

## IR SENSOR



### Surface-Mount IR MicroSensor®

#### MS220

Color	Stock Number
Black	FG01577
Silver	FG01578
White	FG01579

#### Features

- Receiving range is typically 20' - 35'
- Bi-color visible feedback LED
- Includes 10' of connecting wire
- Packaged for retail display
- Secure adhesive backing

#### Specifications

- Dimensions: 2" wide x 11/16" high x 1/2" deep  
(50.8 mm wide x 17.4 mm high x 12.7 mm deep)

**Warranty:** Two-year limited

**Shipping weight:** 1 lb. (.5 Kg)



includes black  
and white  
bezels



Actual size of sensor

### Flush-Mount IR MicroSensor®

#### MS120

Stock Number
FG01580

#### Features

- Receiving range is typically 20' - 35'
- Includes 10' of connecting wire
- Packaged for retail display
- Designed for discrete mounting
- Includes black and white bezels

#### Specifications

- Dimensions: Lens Bezel: 1/2" diameter x 4-1/64" high  
(12.7 mm diameter x 16.3 mm high)  
Overall: 1/2" diameter x 2-7/8" high  
(12.7 mm diameter x 73 mm high)
- Hole Cutout: 1/2" (1.27 cm) diameter

**Warranty:** Two-year limited

**Shipping weight:** 1 lb. (.5 Kg)



### Wall-Mount IR Sensor

#### WS120

Color	Stock Number
White	FG01582

#### Features

- Receiving range is typically 20' - 35'
- Bi-color visible feedback LED
- Packaged for retail display with white Decora® plate
- Removable Decora® snap-in color insert
- Fits into a single gang box

#### Specifications:

- Dimensions: 2-3/4" wide x 4-1/2" high x 1-1/4" deep  
(7 cm wide x 11.4 cm high x 3 cm deep)

**Warranty:** Two-year limited

**Shipping weight:** 1 lb. (.5 Kg)

## IR SENSOR

### Ceiling-Mount IR Sensor



**CS120**

Stock Number  
FG01583

#### Features

- Receiving range is typically 20' - 35'
- Includes 10' of connecting wire
- Packaged for retail display
- Unique pivoting ceiling-mount design

#### Specifications:

- Dimensions: Front Bezel: 3/4" diameter x 1/4" high (19 mm diameter x 6.4 mm high)  
Lens Bezel: 1/2" diameter x 4-1/64" high (12.7 mm diameter x 16.3 mm high)
- Hole Cutout: 11/16" (1.75 cm) diameter

**Warranty:** Two-year limited

**Shipping weight:** 1 lb. (.5 Kg)

### Tabletop IR Sensor



**TS120**

Stock Number  
FG01581

#### Features

- Receiving range is typically 20' - 35'
- Bi-color visible feedback LED
- Packaged for retail display
- Small footprint

#### Specifications

- Dimensions: 2-7/8" wide x 1-1/16" high x 3-1/8" deep (73 mm wide x 27 mm high x 79.4 mm deep)

**Warranty:** Two-year limited

**Shipping weight:** 1 lb. (.5 Kg)

## INFRARED EXTENDER SYSTEMS

### Remote Control Anywhere!® Kit for Home Theater Application



**RCA-HT2**

Color Stock Number  
Black FG01586



#### Features

- One MS220 Surface-Mount IR MicroSensor in black
- One MSU250 IR Main System Unit
- Five MF1VF MicroFlashers® with Visible Feedback
- 50' of CAT-5 cable
- UL-listed regulated in-line power supply with universal voltage
- Packaged for retail display

#### Specifications

- Box Dimensions: 13" wide x 7-7/8" high x 3-1/2" deep (33 cm wide x 20 cm high x 8.9 cm deep)

**Warranty:** Two-year limited

**Shipping weight:** 5 lbs. (2.5 Kg)

### Remote Control Anywhere!® Kit with Surface Mount Sensor



**RCA-SM2**

Color Stock Number  
Black FG01585



#### Features

- One MS220 Surface-Mount IR MicroSensor
- One MSU140 IR Main System Unit
- Three MF1 MicroFlashers®
- 50' of CAT-5 cable
- UL-listed regulated in-line power supply with universal voltage
- Packaged for retail display

#### Specifications:

- Box Dimensions: 13" wide x 7-7/8" high x 3-1/2" deep (33 cm wide x 20 cm high x 8.9 cm deep)

**Warranty:** Two-year limited

**Shipping weight:** 5 lbs. (2.5 Kg)

**INFRARED EXTENDER SYSTEMS CONT.**
**Remote Control Anywhere!®  
Kit with Tabletop Sensor®**
**RCA-TT2**


Color	Stock Number
Black	FG01584

**Features**

- One TS120 Tabletop IR Sensor
- One MSU140 IR Main System Unit
- Three MF1 MicroFlashers®
- 50' of CAT-5 cable
- UL-listed regulated in-line power supply with universal voltage
- Packaged for retail display

**Specifications**

- Box Dimensions: 13" wide x 7-7/8" high x 3-1/2" deep  
(33 cm wide x 20 cm high x 8.9 cm deep)

**Warranty:** Two-year limited

**Shipping weight:** 5 lbs. (2.5 Kg)

**INFRARED EXTENDER SYSTEM QUICK REFERENCE GUIDE**

	Stock No.	Part Description	Unit	Master Carton
	<b>IR SENSORS</b>			
<b>NEW!</b>	FG01577	<b>MS220</b> Surface-Mount IR MicroSensor® (Black)	ea	6 Individual
<b>NEW!</b>	FG01579	<b>MS220</b> Surface-Mount IR MicroSensor® (White)	ea	6 Individual
<b>NEW!</b>	FG01578	<b>MS220</b> Surface-Mount IR MicroSensor® (Silver)	ea	6 Individual
<b>NEW!</b>	FG01580	<b>MS120</b> Flush-Mount IR MicroSensor®	ea	6 Individual
<b>NEW!</b>	FG01582	<b>WS120R</b> Wall-Mount IR Sensor (White)	ea	6 Individual
<b>NEW!</b>	FG01583	<b>CS120</b> Ceiling-Mount IR Sensor	ea	6 Individual
<b>NEW!</b>	FG01581	<b>TS120</b> Tabletop IR Sensor	ea	6 Individual
	<b>IR MAIN SYSTEM UNITS</b>			
	FG01002	<b>MSU140</b> IR Repeater System for Single Zone Application	ea	6 Individual
	FG01003	<b>MSU250</b> IR Repeater System for Single Zone Application	ea	6 Individual
	FG01004	<b>MSU480</b> IR Repeater System for Single Zone Application	ea	6 Individual
	FG01005	<b>MSU440Z</b> IR Repeater System for MultiZone Application	ea	6 Individual
	FG01018	<b>IRH610</b> IR Sensor Expansion Hub	ea	6 Individual
	FG01172	<b>PAR4</b> Simplified Infrared Router	ea	6 Individual
	<b>IR FLASHERS</b>			
	FG01023	<b>IRB1</b> High-Output IR Flasher	ea	6 Individual
	FG01019	<b>MF1</b> IR MicroFlasher®	ea	6 Individual
	FG01066	<b>MF1U</b> Bulk IR MicroFlasher® – (Contains 24 pcs)	ea	N/A
	FG01020	<b>MF1VF</b> IR MicroFlasher® with Visible Feedback	ea	6 Individual
	FG01161	<b>MF1VF</b> Bulk IR MicroFlasher® with Visible Feedback – (Contains 24 pcs)	ea	N/A
	FG01021	<b>MF2</b> Dual IR MicroFlasher®	ea	6 Individual
	FG01022	<b>MF2VF</b> Dual IR MicroFlasher® with Visible Feedback	ea	6 Individual
	<b>INFRARED EXTENDER SYSTEMS</b>			
<b>NEW!</b>	FG01586	<b>RCA-HT2</b> Remote Control Anywhere!® Kit for Home Theater Application with Surface-Mount IR MicroSensor®	ea	4 Individual
<b>NEW!</b>	FG01585	<b>RCA-SM2</b> Remote Control Anywhere!® Kit with Surface-Mount IR MicroSensor®	ea	4 Individual
<b>NEW!</b>	FG01584	<b>RCA-TT2</b> Remote Control Anywhere!® Kit with Tabletop IR Sensor	ea	4 Individual