



Event-Driven Indoor Security IP Camera/Detector with HD Audio

Installation Manual

Compatible with Insite GOLD and SWAN Server

Introduction

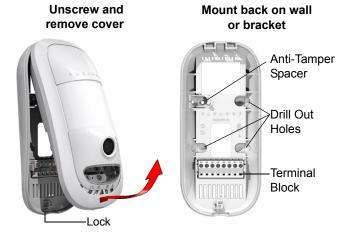
The HD78/F Event-Driven Indoor Security IP Camera combined with its Security Detector provide video/audio solution for security systems. It provides day/night vision at 720P and Hi-Fi audio recording, with over 40 minutes of internal event-recording capacity.

Installing the HD78

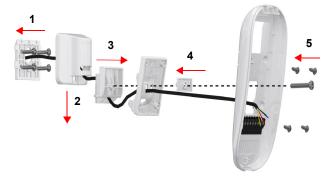
WIRING: For bus wire, it is recommended to use 18 gauge wire if distance from the power supply is over 150ft (50m), or wire is feeding more than one camera. Due to battery backup operation conditions, Camera feeding wire (bus) should not have more than 1.0V drop, each camera represents 0.3A max current, wire resistance calculator can be found on the web. Resistance per:

100ft 22 gauge wire = 1.6 Ohm, 18 gauge 0.64 Ohm. Voltage drop formula: $V = 2R \times 0.3N$

(R = Wire resistance, N = Number of cameras fed by the wire, use lower gauge wire if necessary).



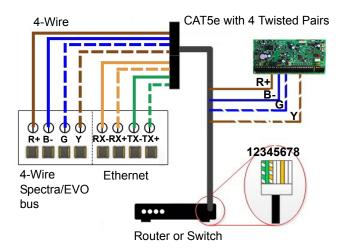
Bracket Mount



HD78F - Connect Via Wi-Fi with Insite App HD78 - Bus Wiring and / or Ethernet (HD78) Wiring Using a CAT5e Cable

NOTE: Due to the wire size of CAT5 22 gauge wire the maximum length when using CAT5 for powering the HD78 is 150ft.

Wire the HD78/F camera with a single CAT5e or higher cable including two twisted pairs for the 4-wire bus and two twisted pairs for the Ethernet lines. The maximum CAT5e cable length is 50 meters.



Recommended Wiring Assignment		Ethernet Connector	
Bus Label	Wire Color	Ethernet Wire Assignment	Wire Color
R+	Brown	1	Green Striped
B-	Blue	2	Green
G	Blue striped	3	Orange Striped
Y	Brown striped	4	
RX-	Orange	5	
RX+	Orange striped	6	Orange
TX-	Green	7	
TX+	Green striped	8	

Programming

- HD78F Connect Power, Open Tamper
- Phone: Activate hotspot on your 2. Android device, launch the Insite App.
- Go to menu, select installation.
- Follow screen instructions.





LED Status Indicators

Other than PIR detection, LEDs are active when lock mechanism is open.

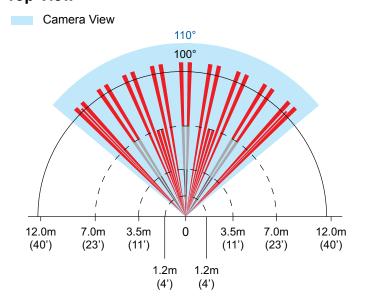
LED	Functionality	LED Display
	Digiplex/Spectra Data TX	Flashing green: Data
TX		transmission
'		Off: No data
		transmission
	Digiplex/Spectra Data RX	Flashing green: Data
RX		reception
		Off: No data reception
	Firmware upgrade in	Flashing purple
	progress.	
	VOD*	Blue on
	Power-up	Flashing blue
	Locate mode	Flashing blue
	No connection to panel bus	Flashing red
	Bus low power	Flashing red
	PIR detection	Red on for 3 seconds
(1)	Active Wi-Fi	Green on
品	LAN 10/100Mb link	Green on: LAN active

^{*}VOD On/Off LED is controlled by the Master **ONLY**, using the Insite GOLD application. PIR Detector Beam Patterns

Technical Specifications

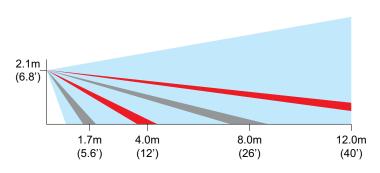
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Image Resolution	1280 x 720
Image Sensor Type	1.4 megapixels, CMOS sensor, 7V/LUX.Sec
Streaming Video	720p H.264 10 FPS
HD Audio	16 bit, 24 KHz sampling rate, 32 Kb/s mono
Pre-event recording	3 seconds (day color mode)
Internal storage	4 GB
Detection Speed	0.2 m/s to 2.5 m/s (0.6 ft/s to 11.5 ft/s)
Voltage Input	Nominal: 12VDC, range 9-16VDC
Current Consumption Max	350mA - IR illumination ON 250mA - IR illumination OFF 100mA - System lost AC / Battery operation
PIR Type	Quad PIR, auto pulse, dual edge, digital detector
Dimensions / Weight	H x W x D: 15 x 7.1 x 6cm (6 x 2.8 x 2.4in) / 163g (5.75oz)
Operating Temperature	-20° C to +40° C (-4° F to 104° F)
Compliance	EN 50131-2-2 Grade 2 Environmental Class II
Installation Height	·
Installation options	Wall or corner, swivel bracket optional
Compatibility	SP5500, SP6000 and SP7000
Installation Height Installation options	2.1m - 2.7m (7ft - 9ft) Wall or corner, swivel bracket optional

Top View



Side View

Camera View



warranty

For complete warranty information on this product, please refer to the Limited Warranty Statement is found on the website: www.paradox.com/terms or contact your local distributor. Specifications may change without prior notice.

Patents

US, Canadian and international patents may apply. Paradox is a trademark or registered trademark of Paradox Security Systems (Bahamas) Ltd.

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