PARADOX™

HD88

720P HD Outdoor Camera
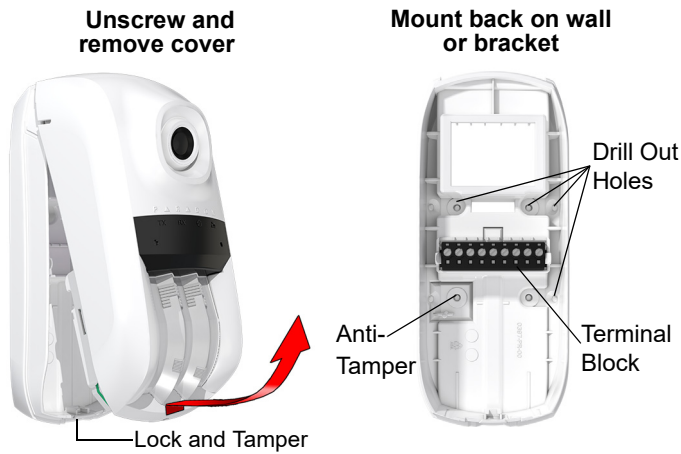**Installation Manual**

Compatible with Insite GOLD and SWAN Server

Power Requirements

It is recommended to use the PS25 power supply module that is capable of powering a maximum of 5 x HD88's.

HD88 Ethernet Wiring

Connect the HD88 camera with a CAT5e or better cable using pairs 2 & 3 (pins 1,2,3,6). The maximum cable length is 50 meters.

HD88 Bus Wiring

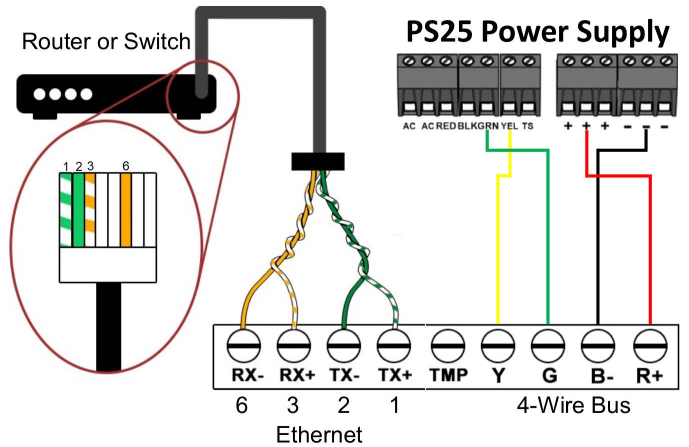Connect the PIR with a 4-core 14/0.20 cable or better.

Introduction

The HD88 is an IPX4 outdoor 720P HD camera with built-in audio, pet immune security motion detector, with Ethernet and Wi-Fi. It provides up to 30 minutes of internal recording and comes with a removable rain hood. The BR88 wall bracket is an optional accessory.

Installing the HD88

Unscrew and remove cover

Mount back on wall or bracket

Drill Out Holes

Anti-Tamper

Terminal Block

Lock and Tamper

If you are installing the HD88 near any reflecting surface, please note that it may affect the quality of the night vision due to the IR reflection.

BR88 Wall Bracket Installation

2

3

4 x

1
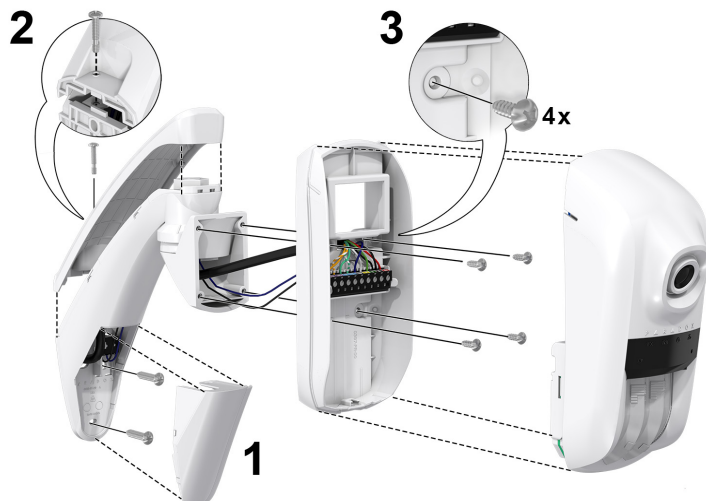
If wall bracket tamper is connected, tamper will automatically be detected by the camera. Tamper will follow recognition settings set in the panel.

Router or Switch

PS25 Power Supply

AC AC RED BLK GRN YEL TS

+ + + – –

| RX- | RX+ | TX- | TX+ | TMP | Y | G | B- | R+ |

| 6 | 3 | 2 | 1 | | | | | |

Ethernet

4-Wire Bus

568A Ethernet Wiring			
Pair #	Colour	Pin #	Tx / Rx
1	Blue Stripe	5	
	Solid Blue	4	
2	Green Stripe	1	Tx +
	Solid Green	2	Tx -
3	Orange Stripe	3	Rx +
	Solid Orange	6	Rx -
4	Brown Stripe	7	
	Solid Brown	8	

HD88 Wiring Table

Camera Wire Assignment

Terminals	Wire Colour
RX-	Solid Orange
RX+	Orange Stripe
TX-	Solid Green
TX+	Green Stripe

Bracket Wire Assignment

Terminals	Wire Colour
TMP	Blue
B-	Black

PIR Wire Assignment

Y	Yellow
G	Green
B-	Black
R+	Red

Creep Zone / Pet Selection

UP = Pet   DOWN = Creep Zone
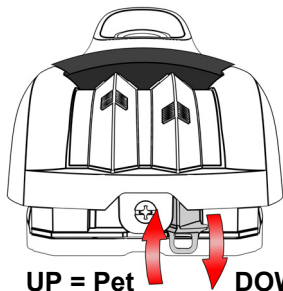
Remove detector assembly.
When selector is UP is Pet Mode.
When selector is DOWN is Creep Zone and there is no Pet Immunity.

Mounting above 2.4m Pet Immune should be OFF (lever down)

Installation Height:
Pet Immune ON - 2.1m to 2.4m (lever up)
Pet Immune OFF - 2.4m to 2.7m (lever down)

For installations higher than 2.6m tilt the detector down a few degrees for best detection results. Use of the BR88 bracket is recommended.

Registration LED Status Indicators

| LED Functionality	Network Status
LED 🖧 and LED 🌐 flash intermittently	HD88 is not connected to a local network
LED 🖧 is On and LED 🌐 is Flashing	HD88 is connected to a local network but failed to poll the SWAN Server
LED 🖧 is On and LED 🌐 is On	HD88 is connected to a local network and is successfully polling the SWAN Server

LED Status Indicators

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

| LED	LED Display	Functionality
TX	Flashing green: Data transmission Off: No data transmission	Digiplex/Spectra Data TX
RX	Flashing green: Data reception Off: No data reception	Digiplex/Spectra Data RX
▲	Flashing purple	Firmware upgrade in progress
	Blue on	VOD*
	Flashing blue	Power-up
	Flashing blue	Locate mode
	Flashing red	No connection to panel bus
	Flashing red	Bus low power
	Red on for 3 seconds	PIR detection
🌐	Green on	Active Internet
🖧	Green on	Active LAN 10/100Mb link

*VOD On/Off LED is controlled by the Master **ONLY**, using the Insite GOLD application.

HD88 Camera Set Up and Configuration

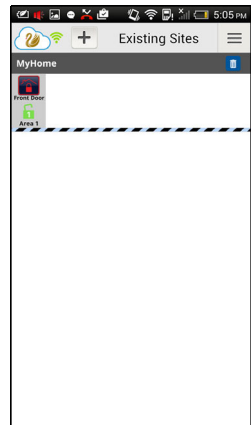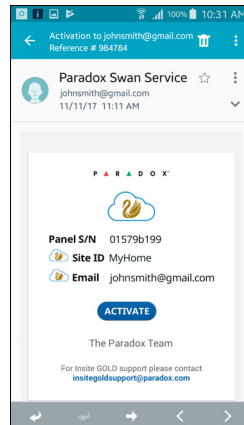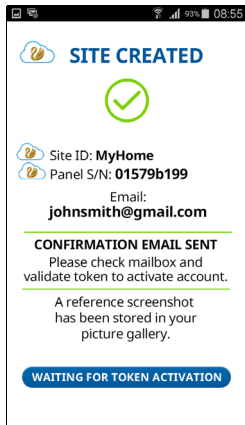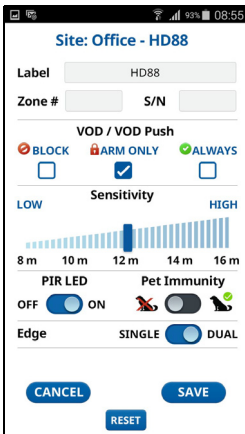**(1)** Launch the Insite Gold app

(2) Select **New Installation** and then the **Create** button.

(3) Type in the **Panel Serial Number**, **Site ID**, **Client's Email Address.**

(4) To add a WiFi Camera, press **Add WiFi Camera**. If you are not configuring a **WiFi** Camera, skip to Step 10.
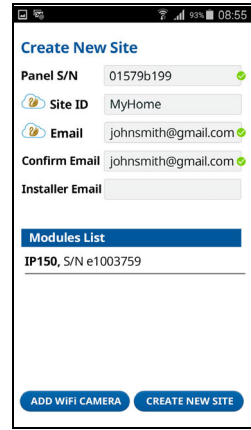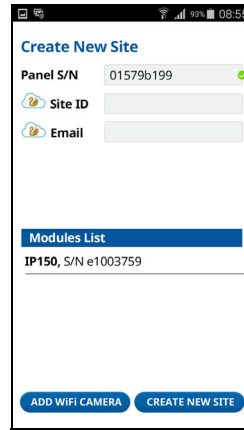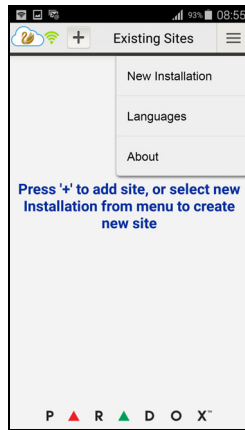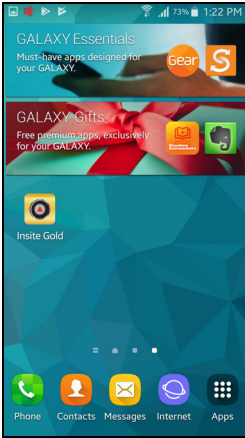
(5) Select the WiFi network that the camera will be registered to.

(6) Enter the **WiFi password** and press continue.

(7) A QR code will be generated. Present the QR code to the camera lens. Ensure tamper is open by unscrewing screw at the bottom of the HD88.

(8) The HD88 WiFi Camera will then be displayed in the modules list with a WiFi symbol next to it. Press **Configure** to modify settings.
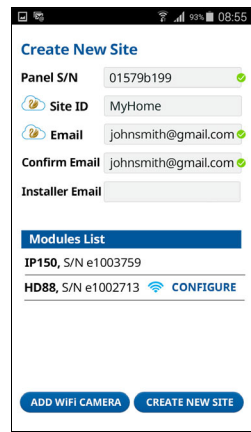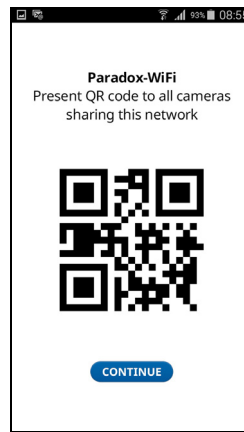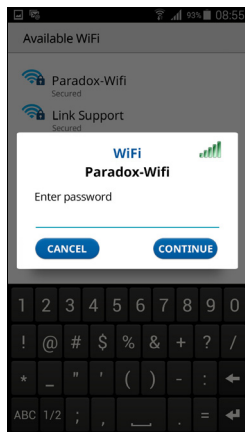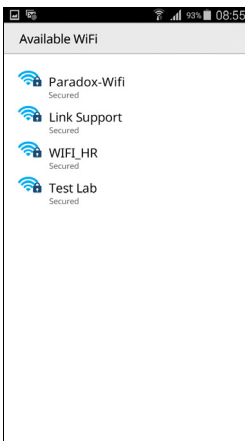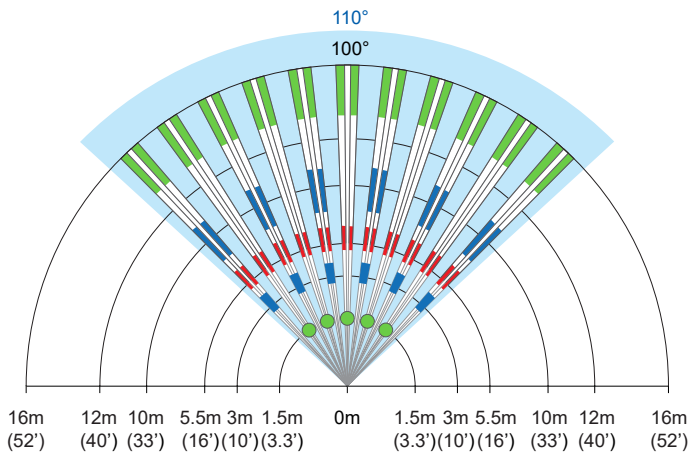

(9) Configure your settings and press **Save** when completed.

(10) Press **Create New Site**. A Site Created message will appear. The system will send you an email.

(11) Retrieve your email and click **Activate**. You will then be prompted to choose the type of activation for your subscription.

(12) Your site will then be created and displayed in the app.
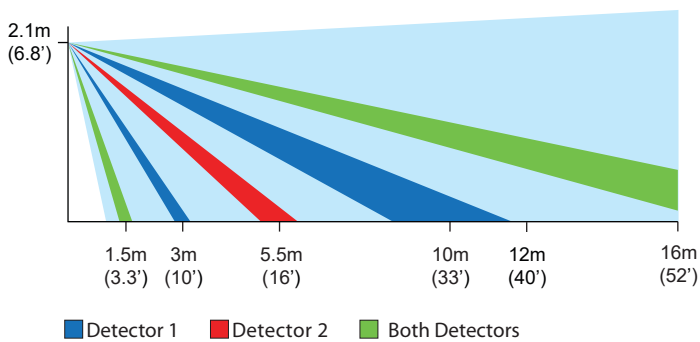
PIR Detector Beam Patterns

Top View

Camera View

110°
100°

| 16m (52') | 12m (40') | 10m (33') | 5.5m (16') | 3m (10') | 1.5m (3.3') | 0m | 1.5m (3.3') | 3m (10') | 5.5m (16') | 10m (33') | 12m (40') | 16m (52') |

Side View

Camera View

2.1m (6.8')

| 1.5m (3.3') | 3m (10') | 5.5m (16') | 10m (33') | 12m (40') | 16m (52') |

■ Detector 1   ■ Detector 2   ■ Both Detectors

Technical Specifications

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	3.0 seconds
Internal storage	15 minutes alarm and 15 minutes Video On Demand (VOD) File length - 10 sec. 3 min.
PIR Sensor / Lens	2x dual element / Mironel lens
Pet Immune	Pets up to 50cm
Voltage Input	Nominal: 12VDC, range 9-16VDC
Current Consumption Max	350mA - IR illumination ON 250mA - IR illumination OFF
Dimensions (H x W x D)	16.8 x 6.8 x 7.4 cm
Operating Temperature	-40° C to +60° C
Internet Bandwidth	Minimum 1 Mb/s UPLOAD recommended
Installation Height	2.1m - 2.7m
Installation Options	Wall or corner mount, BR88 optional
Compatibility	EVOHD, EVO192, SP5500, SP6000 and SP7000

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.
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