

WATER RESISTANT CAMERA

The photo camera accessory connects to the Syrus via [RS-232] serial port (RX & TX cables) and takes photos based on any configurable event conditions. The camera is fully integrated with the Pegasus Gateway and its APIs allowing you to take low, medium, or high resolution photos based on multiple conditions.

PART NUMBER
70015

- Connect up to 3 photos simultaneously with the Serial Expander accessory
- Take photos upon request (SMS Alias, Platform button)
- Take photos based on events (Panic Press, Door Opened, Aggressive Driving event)



- High level APIs for taking and retrieving multiple photos
- Configure Low, Medium, or High Resolution Photos
- Capture exact events with the Syrus advanced event configuration engine

TECHNICAL SPECIFICATIONS

ITEM	PARAMETER
Resolution	640 x 480 px / 320 x 240 px / 160 x 120 px
Power Supply	DC 9 - 36V
Focal Distance	2.0mm, 2.8mm, 3.6mm, 12.0mm
Baud Rate	115,200bps
Serial Interface	RS232/RS485/TTL
Infrared	Infrared Light
Night Vision Distance	3 - 20 meters
Image Sensor	CMOS OV7725
Cable Length	4 meters
Connector	DB9 (RS-232)
Operation Temperature	-20 - 85° C
Operation Humidity	20 - 80% RH
Material	Waterproof IP64 Metal Case
Minimum Lumens	1 Lux
Night Vision Lumens	5 Lux
White Balance	Automatic
Exposure	Automatic
Auto Gain Control	Automatic
Other	Anti-Shake, Anti-Interference

DEVICE DIMENSIONS



FAQ

QUESTION	ANSWER
Is the camera waterproof?	The camera is IP64 rated. This means it is protected from total dust ingress, from immersion between 15 centimeters and 1 meter in depth and from water splashes against the enclosure.
Can it take photos at night?	Yes, infrared sensor allow photos to be taken in low-light environments.
Does it record video?	No, the camera accessory only takes photographs; it does not record video footage.
How many photos can the Syrus store?	450 photos = low resolution approximately 3kb 140 photos = Medium resolution approximately 10kb 65 photos = High resolution approximately 20kb
How long does it take to upload photos?	On 2G approximately 30 - 60 seconds for medium resolution photos, on 3G UMTS approximately 8-20 seconds. The difference is based on the amount of pixels in the photo and the network coverage at the time of upload.
How often can I take a photo?	Photos can be taken in intervals of 10-15 seconds if using low resolution. 20-30 seconds in medium resolution. And 45 - 60 seconds in high resolution.
What's the recommended data plan?	If you plan on taking medium size photos every time an important event occurs for example, ignition on, door opened, aggressive driving detected, speeding, etc. we recommend using a monthly data plan of about 10-15 MB.

PHOTO RESOLUTIONS

LOW RESOLUTION	MEDIUM RESOLUTION	HIGH RESOLUTION
160 x 120 px - Approx 2KB - 2KB	320 x 240 px - Approx 5KB - 15KB	640 x 480 px - Approx 15KB - 30KB

PINOUT

COLOR	CABLE	DESCRIPTION
SYRUS CABLES		
■ GREEN	MAIN POWER (12V -24V)	This cable provides same power as the Red cable Main Power. Connect it to the Camera's main power cable(RED).
■ BROWN	GROUND (0V)	Must be connected to the Syrus GND.
■ ORANGE	TX (TRANSIT DATA)	Must be connected to the camera's Green cable (in the serial port).
■ PURPLE	RX (RECEIVE DATA)	Must be connected to the camera's Yellow cable (in the serial port).
CAMERA CABLES		
■ RED	MAIN POWER (12V)	Must be connected to the Syrus main power cable (green – pin #7).
■ BLACK	GROUND (0V)	Must be connected to the Syrus GND (black – pin #16).
■ GREEN	RX (RECEIVE DATA)	Must be connected to the Syrus' Orange cable.
■ YELLOW	TX (TRANSIT DATA)	Must be connected to the Syrus' Purple cable.

INSTALLATION DIAGRAM

