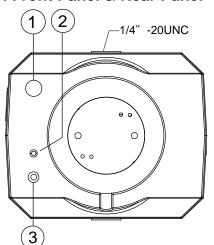
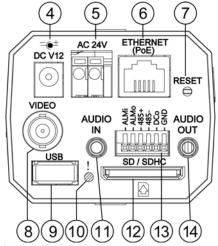
The 2.0-Megapixel IP Box Camera

Description of the device

1. Front Panel & Rear Panel

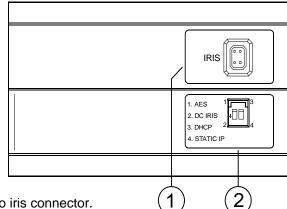




- 1. Light Sensor: Registers the quality of light in the camera's environment, and controls the iris shuttle to provide better information concerning the light.
- 2. MICROPHONE: The IP Camera has an additional audio function. The device has a microphone built into its front panel which records sound.
- **3. POWER indicator:** Indicates the power status of the unit.
- **4. Plug Inlet:** A DC 12V inlet that connects to an external power supply.
- 5. Plug Inlet: An AC 24V inlet that connects to an external power supply.
- 6. ETHERNET 10/100 Connector: This is a standard RJ-45 connector for 10/100 Mbps Ethernet networks. PoE (Power over Ethernet) function: Provides power to the device via the same cable as used for the network connection.
- **7. RESET:** Recover to factory default.
- 8. VIDEO OUT Connector: The connector provides the unit's composite video signals to a monitor.
- 9. USB port: The user can use a USB device cable to connect the IP camera to the USB port on the PC.
- 10. LED indicator: The green light indicates the unit is activating and the SD card cannot be removed.

- 11. AUDIO IN: The connector is used to connect the audio output from other devices to the camera.
- 12. SD/ SDHC CARD slot: This is used for system software updating and archiving / accessing critical images.
- 13. ALARM I/O: This is a 6-PIN connector including the ALARM IN/OUT, RS-485, DC OUTPUT and GROUND items for connecting with external devices.
- **14. AUDIO OUT:** Provides the camera's audio signal to a speaker or stereo.

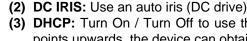
2. Flank Panel



- 1. IRIS: Auto iris connector.
 - This camera works with a DC drive auto iris lens. Please refer to the pin assignment marked on the camera when connecting the auto iris lens

2. DIP Switch:

(1) AES: Auto electric shutter.



- (3) DHCP: Turn On / Turn Off to use the DHCP protocol. If the switch points upwards, the device can obtain an IP address from the DHCP server via the network.
- (4) STATIC IP: If the switch points down, the device can't obtain an IP address from the DHCP server. This option is needed to configure the network communication settings.

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Please follow the steps given below to install, configure and set the IP Camera.

1. Check the IP class of your PC

- Step 1: From the Start menu, point to Settings, and then click Control Panel.
- Step 2: When Control Panel appears, double-click the Network Connections icon. The Network Connections dialog box appears.
- Step 3: Click the Protocols tab in the Network Connections dialog box.
- Step 4: When the Local Area Connection Properties dialog box shows up, choose Internet Protocol (TCP/IP) and click Properties.
- Step 5: In the Internet Protocol (TCP/IP) Properties dialog box, choose Use the following IP Address to indicate that you do not wish to use DHCP, and assign IP Address 192.168.1.200 with Subnet mask 255.255.255.0. Click **OK** when you finish it.
- Step 6: Choose Close to finish the modification.

2. Install UPnP Packets of your PC

As described before, Microsoft Windows XP doesn't start the UPnP service by default; however, we have to install some packets before we initialize it. The following steps will help you to install them

- Step 1: From the Start menu, point to Set Program Access and Default, and then click it.
- Step 2: When the Add or Remove Programs dialog box appears, click the Add/Remove Windows Components button.
- Step 3: Check the Network Services in the Windows Component Wizard dialog box, and then click Details....
- Step 4: Check UPnP User Interface, and choose OK.
- Step 5: When the original Network Component Wizard dialog box returns, click Next.
- Step 6: After about one minute the UPnP installation will be done, and choose Finish to close it.

3. Turn on Services of your PC

After installation, we should turn on the relative services to start the UPnP protocol. The following procedures will teach you how to do it.

- Step 1: From the Start menu, point to Settings, and then click Control Panel.
- Step 2: When Control Panel appears, double-click the Administrative Tools icon. The Administrative Tools dialog box appears.
- Step 3: Click the Services icon in the Administrative Tools dialog box.
- Step 4: When the Services dialog box shows up, double click the SSDP Discovery Service icon.
- Step 5: Choose Automatic in the Startup type, and click OK to start it.
- Step 6: When the Services dialog box appears again, double click the Universal Plug and Play Device Host icon.
- Step 7: Choose Automatic in the Startup type, press the Start button, and click OK to start it.
- Step 8: Restart your system.

4. Set the static IP address in the IP Camera.

- **Step 1:** Plug in its power connection.
- Step 2: Plug the USB connector in your PC and in the USB socket in the rear of the lens.
- **Step 3:** A window pops up asking if you want to "Run the program", "Open folder to view files", or "Take no action". Choose "Run the program" and click "**OK**", and the "USB configuration" window will pop up.
- **Step 4:** Set the Network setting and type in the IP address you desire. Before you change the IP address, you should note the factory default Static IP address (192.168.1.168).
- Step 5: After changing the IP address, click the "Apply" button in the "USB Configuration" window.
- **Step 6:** A message pops up asking you to affirm the action as "**OK**".
- Step 7: Click "OK", and remove the USB connection from your PC.
- Step 8: Click "Exit" at the bottom of the "USB Configuration" window to close the window. Or, choose the "Launch" button to see the local camera images directly.
- **Step 9:** Before clicking "**Launch**", check your PC's IP address and use the Network connector (RJ-45) to link up with your camera.
- Step 10: If you can see the images, it means the IP setting is complete.

5. Scan IP Camera through "My Network Place"

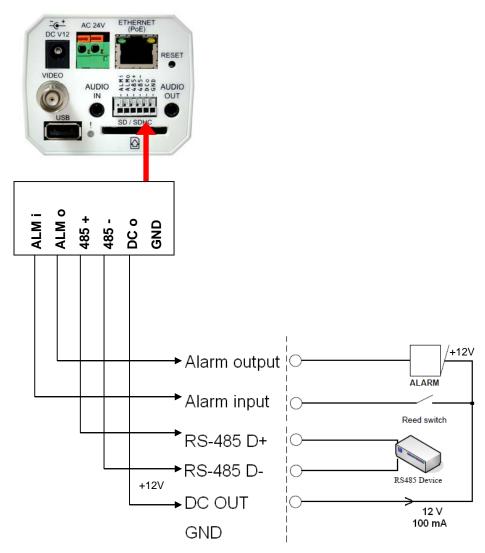
- **Step 1:** After your installation and starting services, the UPnP protocol will take effect. You can scan all **IP Cameras** in My Network Place.
- **Step 2:** Just double click the **IP Camera** icon, and the video live stream will pop up automatically without assigning any IP address in Microsoft Internet Explorer.

6. Change the IP Camera's control and operational settings.

- Step 1: Type in the IP address in the IE Browser. You will now see the IP camera' images.
- **Step 2:** Use the buttons below the images to enter any other operational settings pages.
- **Step 3:** When you change any setting, please don't forget to click the "**Submit**" button in each page.
- NOTE: Enable DHCP Function: This function can only work if the LAN, which the unit is connected to, has a DHCP server. If the DHCP server is working, the IP Camera will obtain an IP address automatically from the DHCP server.
- NOTE: When only one unit of the IP Camera is connected to a computer or LAN, you can freely assign an IP address for the IP Camera. For example, there is a range of IP Camera IP addresses from 192.168.1.1 to 192.168.1.255. You can pick one for use from the range of the IP. It's not necessary to set MASK and GATEWAY; leave the settings as default.

When an IP Camera is connected to a WAN, you must acquire a unique, permanent IP address and correctly configure the MASK and GATEWAY settings according to your network architecture. If you have any questions regarding those settings, please consult a qualified MIS professional or your ISP.

The Alarm Wiring Diagram



Hardware Installation

- 1. Plug in the power connection to the IP camera.
- 2. Plug in the IP camera cable.
- 3. Confirm the correct network connection status (PC/HUB/ IP camera).
- 4. In the PC IE Browser, key in the camera's IP online to link up to the live first page.

NOTE: Red light power indicator of the IP Box Camera: it flashes when the power supply is on.

Two-color network indicator:

- (1) It is off when the network is disconnected.
- (2) The green light goes on when the network is connected; the orange light flashes indicate the network connection status.

WARNING

- To prevent fire or shock hazard, avoid exposing this unit to rain or moisture.
- Do not block ventilation openings.
- Do not place anything on top of the unit that might spill or fall into it.
- Do not attempt to service this unit yourself, as opening or removing covers may expose
 you to dangerous voltage or other hazards. Please refer all servicing to your distributor /
 retailer.
- Do not use liquid cleaners or aerosols for cleaning.
- To prevent fire or electric shock, do not overload wall outlets or extension cords.
- PoE warning: If the PoE injector is used instead of the supplied power adaptor, all of the
 wiring to and from the injector must be routed/ installed inside a building/ plant and never
 routed/ installed outside of the building/ plant.
- Please only select a power adapter or power certified by UL and marked at 24Vac / 60 Hz, minimum 1A, class 2 or LPS.
- Indoor use only.
- Please do not look directly at the shining, reflecting surface of the camera housing.
 Looking directly could result in eye uncomfortable.
- This product should not be used for the same purposes as consumer electronic devices.
- The interconnecting cables should be placed inside the UL certified Outdoor Use Conduits.

CAUTION

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

ATTENTION

RISQUE D'EXPLOSION SI LA PILE EST REMPLACEE PAR UN TYPE INCORRECT. DEBARRASSEZ-VOUS DES PILES USAGEES EN SUIVANT LES INSTRUCTIONS.

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Specifications

Model		The 2.0-Megapixel IP Box Camera
	Image sensor	1/2.7" Omni Vision 2M CMOS sensor
Camera	Lens Mount	CS-mount
	Minimum illumination	Color: 0.2 Lux @ F1.2; B/W: 0.01 Lux @ F1.2
	IR cut filer	Yes
	Day & Night	Auto / Day / Night / Schedule.
	Video Compression	H.264 / MPEG4 / MJPEG.
	VIGCO COMPLESSION	11.2047 MFEG47 M3FEG. 1. 4:3 - "1440x1080", "1280x960", "1024x768", "800x600",
	Resolution	 4:3 - "1440x1080", "1280x960", "1024x768", "800x600", "640x480", "480x360", "320x240" and "176x144". 16:9 - "1920x1080", "1280x720", "800x450", "640x360",
		16:9 - "1920x1080", "1280x720", "800x450", "640x360",
		"480x270", "320x176" and "176x144".
	Video streaming	- Simultaneous H.264, MPEG4 and MJPEG.
lmage	video streaming	- Multi-profile: resolution / compression / frame rate / video quality.
	Profiles	3 (selectable)
	Frame rate	NTSC: Maximum 30FPS (1920 X 1080)
		PAL: Maximum 25FPS (1920 X 1080)
		- Adjustable image size, quality, and bit rate.
		- Day / Night mode. - Flip & Mirror.
	Image settings	- AGC, AWB, AES.
	mage settings	- Time stamp and text caption overlay.
		- Privacy masks.
		- Exposure Mode
	Video management software	SDK, including HTTP-API / ActiveX / ONVIF.
	Audio streaming	Two-way.
Audio	Compression	G.711 / G.726.
	Audio bit rate	G.711 64kbps / G.726 32kbps.
	Inputs / outputs:	1 x input / 1 x output (3.5mm earphone jack).
Network		Multi-level password protections, IP address filtering, HTTPS
	Security	encryption, User access log.
	Drotocolo	IPv4, HTTPS, HTTP, TCP, UDP, RTP/RTCP/RTSP, DHCP, NTP, FTP,
	Protocols	SMTP, UPnP, ICMP, ARP, DDNS, PPPoE, SAMBA
	Users	Access by 10 simultaneous users.
	Firmware update	SD card / HTTP.
	Recording	SD card, SAMBA, FTP
	Pre-alarm recording	Yes.
	Advanced motion	512 zones. Sensitivity: 0 - 100 %.
Alarm		Motion Detection
		Schedule
	Trigger	Alarm input
		Ethernet loss Network/Remote digital alarm input
	Notification	
	Notification	SD card recording, SMTP, FTP, HTTP, alarm output.
	Notification RJ-45	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX.
		SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1
	RJ-45 Digital I / O	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485
Connectors	RJ-45 Digital I / O Earphone jack	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]).
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≦10W - 12V DC (DC power jack). Approx 4.8W.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≤10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≦10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2).
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Processors	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≦ 10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368.
	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Power Processors OS	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≤ 10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368. Linux 2.6 kernel.
Connectors	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Processors	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE -TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≤ 10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368. Linux 2.6 kernel. 0℃ to 50℃ (32°F to 122°F).
	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Processors OS Operating conditions Approval	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. ≤ 10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368. Linux 2.6 kernel.
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	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Processors OS Operating conditions Approval Dimensions / Package	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. \$\leq\$10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368. Linux 2.6 kernel. 0°C to 50°C (32°F to 122°F). CE, FCC, RoHS, C-Tick. 56 x 68 x 125 mm. (H x W x L) / 1 kg - Quick Installation Guide.
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	RJ-45 Digital I / O Earphone jack DIP Switch Iris Reset Local storage device LED indicators Power consumption Power Processors OS Operating conditions Approval Dimensions / Package Weights	SD card recording, SMTP, FTP, HTTP, alarm output. 10 BASE - T / 100 BASE - TX. Push-in: 1 x Alarm input / 1 x Alarm output / 1 X DC output (12V DC) / 1 x Ground / 2 x RS-485 2 x 3.5 mm (1 x Audio in [mic. in / line in], 1 x Audio out [line output]). 1. AES / 2. DC iris / 3. DHCP / 4.Static IP. DC IRIS. Reset for factory default. SD / SDHC card slot. Power / Network / SD card. \$\leq\$10W - 12V DC (DC power jack). Approx 4.8W 24V AC (2 pin terminal block). Approx 6W 802.3af compliant Power over Ethernet (IEEE 802.3af. Class 2). TMS320DM368. Linux 2.6 kernel. 0°C to 50°C (32°F to 122°F). CE, FCC, RoHS, C-Tick. 56 x 68 x 125 mm. (H x W x L) / 1 kg - Quick Installation Guide.

^{*}Specifications are subject to change without notice.